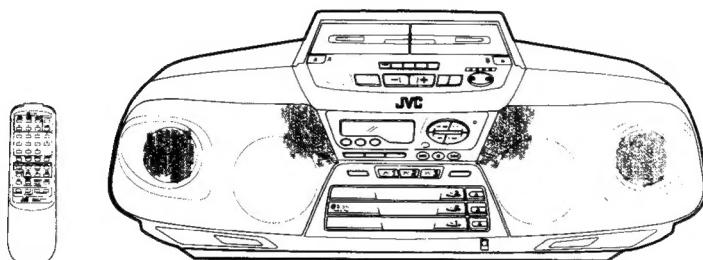


JVC

SERVICE MANUAL

CD PORTABLE SYSTEM

RC-XC3BK B/E/EN/G/GI



COMPACT
disc
DIGITAL AUDIO

Area Suffix

B	U.K.
E	Continental Europe
EN	North Europe
G	Germany
GI	Italy

Contents

1. Safety Precautions.....	Page 2	9. Analytic Drawing and Parts List	58
2. Safety Precaution about RC – XC3BK	3	10. Block Diagram	65
3. Instructions	5	11. Wiring Connections	66
4. Location of Main Parts.....	25	12. Standard Schematic Diagram	67
5. Removal of Main Parts	29	13. Location of P. C. Board Parts.....	73
6. Main Adjustment.....	41	14. Electrical Parts List.....	77
7. Troubleshooting	46	15. Packing	89
8. Outline of Main IC	55		

1. Safety Precautions

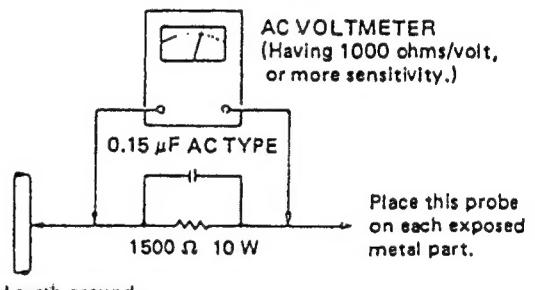
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety - related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by (Δ) on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps , tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re - assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

! CAUTION

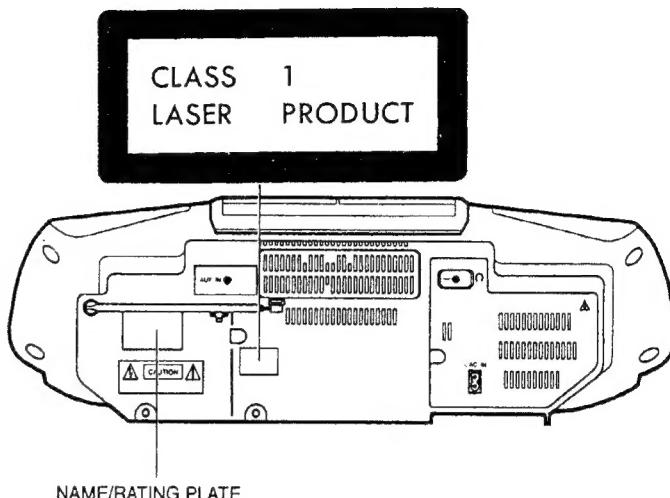
Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

2. Safety Precaution about RC - XC3BK

IMPORTANT FOR LASER PRODUCTS PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

IDENTIFICATION LABEL AND CERTIFICATION LABEL



IMPORTANT (In the United Kingdom)

Mains Supply (AC 230 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

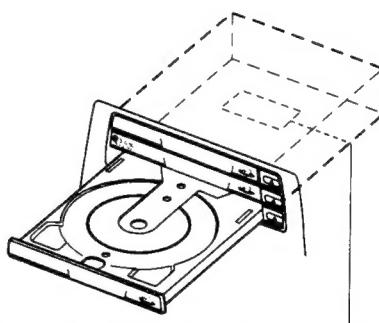


As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.



DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsettelser for strålen. (d)	WARNING: Osynlig laserstråling när denna del är öppnad och spåren är ute af funktion. Undgå utsettelser för strålen. (s)	VARO: Avattaessa ja suojaulokseen oltessasi olet alittuna näkytmättömälle lasersäteilylle. Älä katso sateeseen. (f)
--	---	---	--



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

■ Important management points regarding safety(Item demanding special safety precautions)

1. Power transformer marking : VTP66J2 – 12J

The torque of the screw driver for the power transformor must be controlled.

2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage.

The AC socket must not float from print circuit board.

•Marking HSC0528

3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.

4. Before installation confirm the fuse capacity indication, ⑤ or ⑥ mark on the holder.

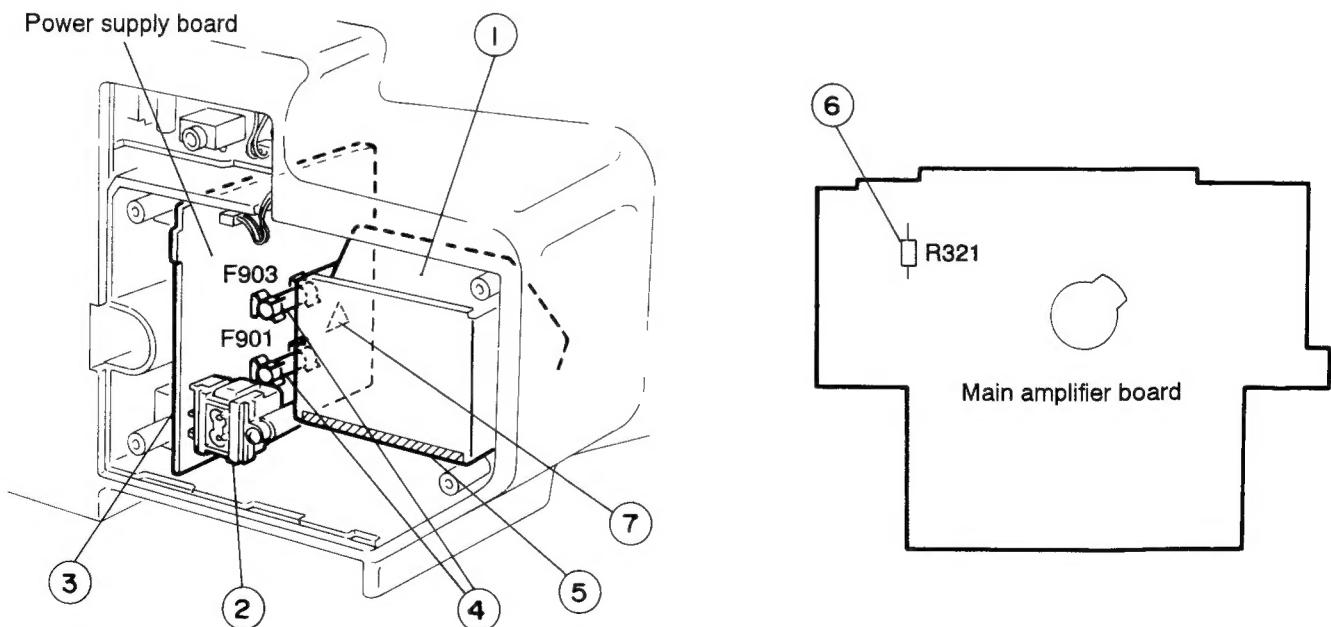
REF.NO	Capacity and mark	Indication on P.C.board	Version
F901	T400mA	T400mA	B/E/EN/G
F903	T6.3A	T6.3A	B/E/EN/G

5. Confirm the fixed spacer on the transformer bracket.

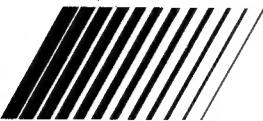
6. The single wire on the printed circuit board must be fixed with spacer of bond.

• IC301,D901~D904,Q911,Q951, Q3009, R351, (R321), R3027

7. Confirm following EMC(Electromagnetic compatibility)control matter.

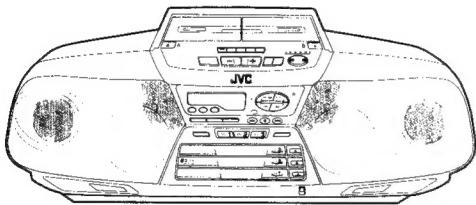


JVC



CD PORTABLE SYSTEM SISTEMA PORTATIL CON TOCADISCOS COMPACTO SISTEMA PORTATILE A CD

RC-XC3 E



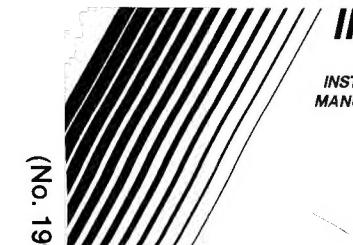
COMPACT
DISC
DIGITAL AUDIO

INSTRUCTIONS

INSTRUCCIONES
MANUALE DI ISTRUZIONI

(No. 191) 5

3. Instructions



ENGLISH

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the unit.



ESPAÑOL

Le agradecemos la adquisición de este producto de JVC. Por favor lea detenidamente las instrucciones antes de comenzar la operación para obtener de esta unidad un rendimiento óptimo y una vida de servicio más larga.

ITALIANO

Grazie per avere acquistato questo prodotto JVC. Si prega di leggere queste istruzioni con attenzione prima dell'uso per essere certi di ottenere prestazioni ottimali ed una lunga durata dell'unità.

CONTENTS

Features	3
Safety precautions	4
Handling precautions	4
Connections	6
Power supply	7
Names of parts and their functions	8
Remote control unit	11
Switching the power on/off	13
Volume, tone and other controls	14
Handling CDs	15
Playing CDs	16
Handling cassette tapes	23
Cassette playback	24
Radio reception	26
Recording	28
Tape dubbing (Synchro start dubbing)	31
Clock adjustment	32
Timer operations	33
Maintenance	37
Troubleshooting	38
Specifications	39

INDICE

Características	3
Precauciones de seguridad	4
Precauciones de manipulación	4
Conexiones	6
Alimentación	7
Nombres de las partes y sus funciones	8
Unidad de control remoto	11
Conexión/desconexión de la alimentación	13
Volumen, tono y otros controles	14
Manejado de CD	15
Reproducción de CD	16
Manipulación de cassettes de cinta	23
Reproducción de cassettes	24
Radiorrecepción	26
Grabación	28
Copia de cinta (copia con inicio sincronizado)	31
Ajuste del reloj	32
Operaciones por temporizador	33
Mantenimiento	37
Detección de problemas	38
Especificaciones	39

INDICE

Caratteristiche	3
Precauzioni per la sicurezza	4
Precauzioni per l'uso	4
Collegamenti	6
Alimentazione	7
Nomi e funzioni delle parti	8
Unità di telecomando	11
Accensione e spegnimento	13
Volume, toni ed altri comandi	14
Maneggio dei CD	15
Riproduzione di CD	16
Maneggio dei nastri a cassetta	23
Riproduzione di cassette	24
Ricezione con la radio	26
Registrazione	28
Duplicazione (duplicazione sincronizzata)	31
Regolazione orologio	32
Funzionamento col timer	33
Manutenzione	37
Diagnostica	38
Dati tecnici	39

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

ADVERTENCIA:

PARA REDUCIR EL RIESGO DE INCENDIO O DE CHOQUES ELECTRICOS, NO EXPONGA ESTE APARATO A LA LLUVIA O A LA HUMEDAD.

AVVERTENZA:

NON ESPORRE L'APPARECCHIO A PIOGGIA O UMIDITÀ ONDE RIDURRE I RISCHI DI FIAMME O SCOSSE ELETTRICHE.



IMPORTANT FOR LASER PRODUCTS

PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user-serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN

CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANTE PARA PRODUCTOS LASER

PRECAUCIONES

1. PRODUCTO LASER CLASE 1
2. PELIGRO: Radiación láser invisible cuando se abre, falla o se desactiva el encendido. Evite la exposición directa al rayo.
3. PRECAUCIÓN: No abra la cubierta trasera. Dentro de la unidad no hay componentes que el usuario pueda reparar, deje toda reparación al personal de servicio cualificado.
4. PRECAUCIÓN: La utilización de los controles de ajuste y de procedimientos que no estén especificados aquí, puede resultar en exposición a radiación peligrosa.

IMPORTANTI PRECAUZIONI PER PRODOTTI LASER

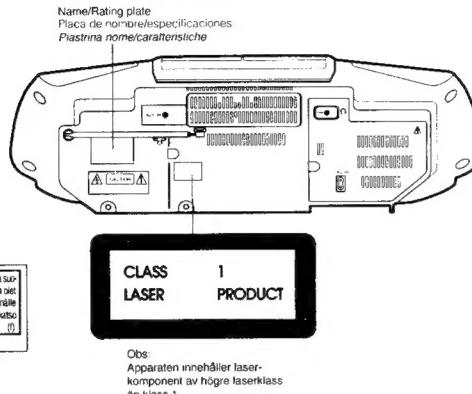
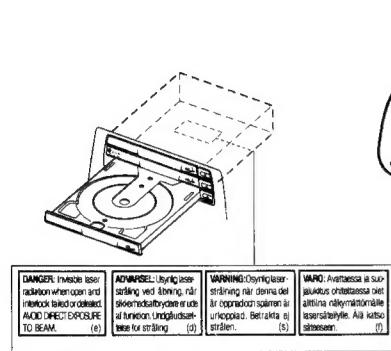
PRECAUZIONI

1. PRODOTTO LASER DI CLASSE 1
2. PERICOLO: Quando l'apparecchio è aperto ed i dispositivi di sicurezza non funzionano o sono stati disattivati, vengono prodotte invisibili radiazioni laser. Evitare l'esposizione diretta al raggio.
3. ATTENZIONE: Non aprire la copertura posteriore. All'interno dell'unità non vi sono parti che possono interessare l'utente; fare eseguire qualsiasi intervento a personale di assistenza qualificato.
4. ATTENZIONE: L'uso di comandi e procedure diversi da quanto specificato possono risultare nell'esposizione a radiazioni pericolose.

REPRODUCTION OF LABELS AND THEIR LOCATION

REPRODUCCION DE ETIQUETAS Y SU UBICACION

ETICHETTE E LORO POSIZIONE



FEATURES

CARACTERISTICAS

CARATTERISTICHE

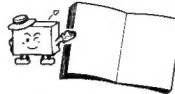
- Multi-function 3-CD changer
- Active Hyper-Bass PRO circuit for low-frequency sound reproduction
- Sound mode control
- Surround mode control
- One-touch operation (COMPU PLAY)
- 39-key remote control unit operates all CD, cassette deck and tuner functions
- Direct Disc Select/Skip Play/Search Play/Continuous Play/Repeat Play/Random Play
- Programmed play of up to 20 tracks
- Full-logic double cassette auto-reverse mechanism (Deck B for recording and playback, Deck A for playback)
- Auto tape select mechanism
- Metal (type IV)/CrO₂ (type II) tape recording capability
- Music scan in forward or reverse direction
- Continuous playback (between Deck A and Deck B)
- Synchro-start dubbing function (normal/high-speed dubbing)
- 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM) preset capability
- Auto preset tuning
- Timer/Clock function
- Timer on/off with preset volume function
- Sleep timer can be set for up to 120 minutes
- Optical digital output

- Cambiador de 3 CD con múltiples funciones
- Circuito Active Hyper-Bass PRO para reproducción sonidos de baja frecuencia
- Control de modo de sonido
- Operación de un solo toque (COMPU PLAY)
- Unidad de control remoto con 39 teclas para operación del CD, platina de cassette y funciones del sintonizador
- Selección directa del disco/reproducción con salto/reproducción con búsqueda/reproducción continua/repetición de reproducción/reproducción aleatoria
- Reproducción programada hasta 20 pistas
- Mecanismo de inversión automática para dos cassettes y lógica completa (platina B para grabación y reproducción, platina A para reproducción)
- Mecanismo de selección automática de cinta
- Capacidad para grabar cintas de metal (tipo IV)/CrO₂ (tipo II)
- Búsqueda de músicas hacia adelante o hacia atrás
- Reproducción continuada (entre la platina A y la platina B)
- Función de copia con inicio sincronizado (copia a velocidad normal/alta)
- Sintonizador sintetizador digital de 2 bandas con capacidad para presentación de 30 estaciones (15 de FM y 15 de AM)
- Busqueda/sintonización manual
- Sintonización programada automática
- Funciónde temporizador/reloj
- Activación/desactivación del temporizador con función de volumen preajustado
- El temporizador despertador puede ser programado hasta un máximo de 120 minutos
- Salida digital óptica

SAFETY PRECAUTIONS

PRECAUCIONES DE SEGURIDAD

PRECAUZIONI PER LA SICUREZZA



Prevention of Electric Shocks, Fire Hazards and Damage

- Even when the POWER button is set to STANDBY, a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
- Do not handle the power cord with wet hands.
- When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
- Consult your nearest dealer when damage, disconnection, or contact failure affects the cord.
- Do not bend the cord severely, or pull or twist it.
- Do not modify the power cord in any manner.
- To avoid accidents, do not remove screws to disassemble the unit and do not touch anything inside the unit.
- Do not insert any metallic objects into the unit.
- Unplug the power cord when there is a possibility of lightning.
- If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
- Do not block the unit's ventilation holes that allow heat to escape.
- Do not install the unit in a badly ventilated place.
- Since this unit uses a motor-driven CD holder or CD tray, make sure that your hand or other object does not obstruct holder or tray movement.

POWER button

When the power cord is connected to a household AC outlet, the power indicator lights in red indicating the STANDBY mode. When the POWER button is pressed, the power indicator goes out and the display window lights.

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control and timer, or to back up the memory of the microprocessor, even when the POWER button is set to STANDBY.

Esta unidad consume una pequeña corriente cuando se la conecta a un tomacorriente de CA, para hacer funcionar el controlador remoto y el temporizador, o para apoyar de la memoria del microprocesador, aun cuando se haya colocado el botón POWER en STANDBY.

Prevención de choques eléctricos, peligro de incendio y daños

- Anque el botón de alimentación POWER, este colocado en espera STANDBY, una pequeña cantidad de corriente continua a fluye. Para ahorrar energía y por seguridad cuando no utiliza esta unidad durante un largo período, desconecte el cordón eléctrico del tomacorriente de CA.
- No manipule el cordón eléctrico con las manos mojadas.
- Cuando lo desenchufa del tomacorriente de la pared, sujetelo siempre por el enchufe, nunca por el cordón.
- En caso de que el cordón sea afectado por daños, desconexión, o falso contacto, consulte a su agente más cercano.
- No doble en ángulo agudo el cordón, ni jale del mismo ni lo retuerza.
- No modifique el cordón eléctrico de ninguna manera.
- Para evitar accidentes, no extraiga los tornillos para desarmar la unidad y no loque nada dentro de la misma.
- No inserte ningún objeto metálico dentro de la unidad.
- Desenchufe el cordón eléctrico cuando haya posibilidad de caída de rayos.
- Si se introduce agua dentro de la unidad, desenchufe el cordón eléctrico del tomacorriente y consulte a su agente.
- No bloquee los orificios de ventilación de la unidad que permiten el escape de calor. No instale la unidad en un lugar mal ventilado.
- Como esta unidad utiliza un portadisco o una bandeja de CD motorizado, asegúrese de que su mano u otro objeto no obstruya el movimiento del mismo.

Botón POWER

Cuando se conecta el cordón eléctrico al tomacorriente de CA, el indicador de alimentación se enciende en rojo indicando el modo STANDBY. Cuando presiona el botón POWER, el indicador de alimentación se apaga y se enciende la ventanilla de indicación.

Tasto POWER

Quando il cavo di alimentazione è collegato con una presa di rete CA, l'indicatore dell'alimentazione si illumina in rosso per indicare il modo STANDBY. Quando il tasto POWER viene premuto, l'indicatore dell'alimentazione si spegne ed il display si illumina.

Quando questa unità è collegata ad una presa di corrente CA, essa consuma una piccola quantità di corrente per il funzionamento del telecomando e del timer o per il mantenimento della memoria del microprocessore anche quando il tasto POWER è impostato su STANDBY.

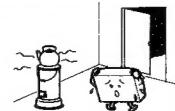
HANDLING PRECAUTIONS

PRECAUCIONES DE MANIPULACION

PRECAUZIONI PER L'USO



Do not use this unit in direct sunlight where it would be exposed to high temperatures above 40°C (104°F).



No utilice esta unidad bajo la luz directa del sol donde podría quedar expuesta a temperaturas superiores a 40°C.



Non utilizzare questa unità in luoghi esposti alla luce solare diretta dove la temperatura può superare i 40°C.

- When abnormal operation occurs.
 - Unplug the AC power cord from the AC outlet. Then reconnect and switch the power ON.

When the AC power cord is unplugged, never close the open tray by hand. To close it, plug the power cord in again and press the Δ button. Otherwise it may cause damage to the unit.

- Avoid installing in the following places
 - Where it could be subject to vibrations.
 - Where it is excessively humid, such as in a bathroom.
 - Where it could be magnetized by a magnet or speaker.

2. Pay attention to dust

Be sure to close the CD holder or CD tray so that dust does not collect on the lens.

3. Condensation

In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.

- In a room where a heater has just been switched on.

- In a place where there is smoke or high humidity.

- When the unit is moved directly from a cold to a warm room.

In these cases, set the POWER button to ON and wait 1 or 2 hours before use.

4. Volume setting

CDs produce very little noise compared with analog sources. If the volume level is adjusted for these sources, the speakers may be damaged by the sudden increase of output level. Therefore, lower the volume before operation and adjust it as required during play.

5. Do not place cassette tapes, etc. near the speakers

Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be erased.

6. Keep this unit away from your TV

When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.

7. Cleaning the cabinet

If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface finish.

8. When listening with headphones

- Do not listen at high volumes as this could damage your hearing.

9. Pay attention to the following

- Do not place the unit on an inclination.
- Do not apply shock to the unit.
- To close the CD tray, press the CD open/close button (Δ). (Do not close it by hand.)
- When this unit is carried, take the CDs out of the CD trays if possible.

- Cuando hay fallas de funcionamiento.
 - Desenchufe el cordón de alimentación CA del tomacorriente de CA. Luego reconectelo y conecte la alimentación.

Cuando se desenchufa el cordón de alimentación CA, nunca cierre el portadisco con la mano. Para cerrarlo, encienda otra vez el cordón de alimentación y premere el botón Δ . De lo contrario podrá dañar la unidad.

- Evite instalarla en los siguientes lugares
 - Donde pueda ser sujeta a vibraciones.
 - Donde haya humedad excesiva, tal como en un cuarto de baño.
 - Donde pueda ser magnetizada por un imán o altavoz.

2. Preste atención al polvo

Asegúrese de cerrar el portadisco o compartimiento de CD para que el polvo no se deposite sobre la lente. No toque la lente.

3. Condensación

En los siguientes casos, puede producirse condensación dentro de la unidad y en consecuencia la unidad no funcionará correctamente.

- En una sala donde haya un calentador encendido.

- En un lugar donde haya humo o gran humedad.

- Cuando se traslada rápidamente la unidad de una sala fría a una templada.

En estos casos, coloque el botón POWER en ON (conectado) y espere 1 o 2 horas antes de utilizarla.

4. Ajuste del volumen

Los productos de CD producen muy poco ruido comparados con las fuentes analógicas. Si ajusta el nivel de volumen para estas fuentes, es posible que los altavoces sean dañados por el incremento brusco del nivel de salida. Por ello, nivele el volumen antes de la operación y ajustelo como deseé durante la reproducción.

5. No coloque cassettes de cinta, etc., próximos a los altavoces

Como hay imanes en los altavoces, no coloque cintas o tarjetas magnéticas sobre los mismos, ya que los datos grabados pueden ser borradados.

6. Mantenga esta unidad lejos de su TV

Cuando se usa esta unidad próxima a un TV, la imagen de éste puede ser distorsionada. Si ello ocurre, mueva esta unidad lejos del TV. Si esto no corrige el problema, evite usar esta unidad cuando el TV está encendido.

7. Limpieza del gabinete

Si el gabinete se ensucia limpielo con un paño suave y seco. Nunca utilice benzina o solventes ya que estos pueden dañar la terminación de la superficie.

8. Cuando escucha con auriculares

- No escuche con el volumen muy alto porque podrían dañarse sus oídos.

9. Preste atención a lo siguiente

- No coloque la unidad en un lugar inclinado.

- No la golpee.

- Para cerrar el portadisco de CD presione el botón abertura/cierre (Δ). (No lo cierre con la mano).

- Cuando transporta esta unidad, extraiga los CD de los portadiscos si es posible.

- Se l'unità non funziona normalmente.
 - Scollegare il cavo di alimentazione dalla presa di corrente, quindi ricongollarlo e accendere l'unità.

Se il cavo di alimentazione viene scollegato, non richiudere i piatti portadisco a mano. Per farlo, ricongolare il cavo di alimentazione e premere il tasto Δ . Itrimenti si può danneggiare l'apparecchio.

1. Evitare l'installazione nei luoghi seguenti

- In luoghi dove l'unità può essere soggetta a vibrazioni.
- In luoghi eccessivamente umidi come una stanza da bagno.
- In luoghi dove l'unità può essere magnetizzata da un magnete o da un diffusore.

2. Fare attenzione alla polvere

Accertarsi di chiudere il piatto o caricatore di CD in modo che la polvere non si raccolga sulla lente del pickup. Non toccare la lente del pickup.

3. Condensa

Nei casi seguenti della condensa si potrebbe formare nell'unità impedendo il funzionamento corretto dell'unità stessa.

- In una stanza in cui il riscaldamento è appena stato acceso.

- In un luogo fumoso o con elevata umidità.

- Cuando se traslada rápidamente la unidad de una sala fría a una templada. En estos casos, coloque el botón POWER en ON ed attendere 1 o 2 ore prima di utilizzare l'unità.

4. Impostazione del volume

I CD producono un rumore estremamente basso se confrontati con fonti analogiche. Si ajusta el nivel de volumen para estas fuentes, es posible que los altavoces sean dañados por el incremento brusco del nivel de salida. Por ello, nivele el volumen antes de la operación y ajustelo como deseé durante la reproducción.

5. Non posare nastri a cassetta, ecc., in prossimità dei diffusori

Dato che i diffusori incorporano dei magneti, non posare nastri registrati o schede magnetiche su di essi in quanto i materiali registrati potrebbero venire cancellati.

6. Non posare nastri a cassetta, ecc., in prossimità dei diffusori

Dato che i diffusori incorporano dei magneti, non posare nastri registrati o schede magnetiche su di essi in quanto i materiali registrati potrebbero venire cancellati.

7. Tenere l'unità lontana dai televisori

Quando questa unità viene utilizzata in

prossimità di un televisore, l'immagine TV potrebbe venire distorta. Se ciò dovesse accadere, allontanare l'unità dal televisore.

Se ciò non fosse sufficiente ad eliminare le interferenze, evitare di utilizzare questa unità quando il televisore è acceso.

8. Pulizia dell'esterno dell'unità

Se l'esterno dell'unità fosse sporco, strofinare con un panno morbido ed asciutto.

Non usare mai benzina o diluente in quanto

essi possono danneggiare la finitura delle superfici.

9. Ascolto con le cuffie

- Non ascoltare ad alto il volume in modo da danneggiare le orecchie.

9. Far attenzione a quanto segue

- Non porre l'unità su di una superficie inclinata.

- Non soffoppare l'unità a forti urti.

- Per chiudere il piatto del CD premere il tasto di apertura/chiusura (Δ). (Non chiudere il piatto manualmente.)

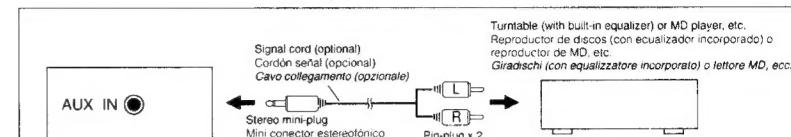
- Se possibile, rimuovere i CD dai piatti del CD durante il trasporto dell'unità.

CONNECTIONS

- Do not switch the power on until all connections are completed.

Connection of external audio units

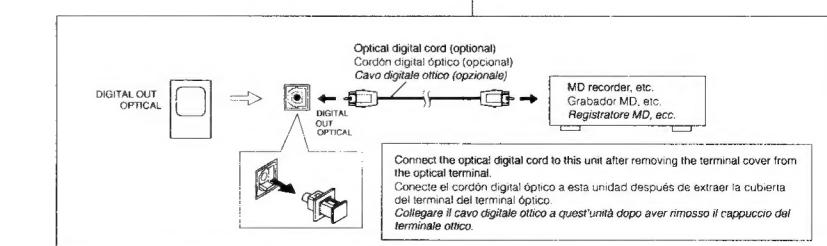
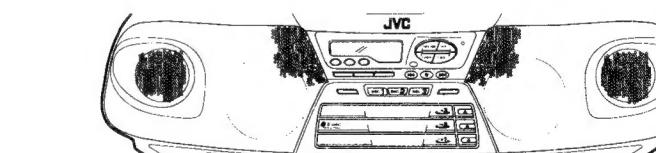
- Connection with a turntable or MD player, etc.



- Connection with an MD recorder, etc. (digital output)

Es posible transmitir una señal de sonido digital desde el reproductor de CD de esta unidad directamente a un registrador MD externo, etc., fornido di un terminal de ingreso óptico. In este caso, conectar el cordón del terminal de salida digital óptica de esta unidad de CD al terminal de ingreso óptico del registrador MD, etc.

- An optical digital cord (optional) is required to make this connection. Refer to the instruction manual of the MD recorder, etc. for details.



CONEXIONES

- No conecte la alimentación hasta haber completado todas las conexiones.

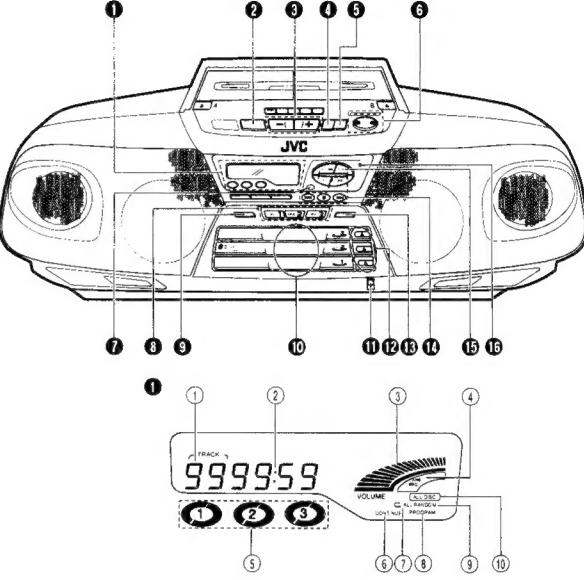
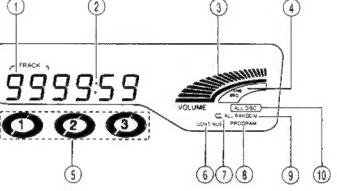
Conexión de unidades externas de audio

- Conexión con un giradisco o reproductor de MD, etc.

- Non attivare l'alimentazione prima del completamento dei collegamenti.

Collegamento di componenti esterni

- Collegamento con un giradisco, un lettore MD, ecc.

POWER SUPPLY	ALIMENTACION	ALIMENTAZIONE	NAMES OF PARTS AND THEIR FUNCTIONS	NOMBRES DE LAS PARTES Y SUS FUNCIONES	NOMI E FUNZIONI DELLE PARTI
Connection of AC power cord ● Connect the AC power cord after all other connections have been made.	Conexión del cordón de CA ● Conecte el cordón de CA después de haber terminado todas las conexiones.	Collegamento del cavo di alimentazione CA ● Collegare il cavo di alimentazione CA dopo aver eseguito tutti gli altri collegamenti.	CD changer/General section	Sección del cambiador de CD/general	Sezione lettore cambiadischi/generale
 Power cord Cordon de alimentación Cavo alimentazione					
CAUTIONS: 1. ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT. 2. BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.	PRECAUCIONES: 1. PARA EVITAR FALLAS O DAÑOS EN LA UNIDAD, UTILICE EL CORDON DE ALIMENTACION DE JVC SUMINISTRADO CON ESTA UNIDAD. 2. ASEGURESE DE DESENCHUFAR EL CORDON DE ALIMENTACION DEL TOMACORRIENTES CUANDO SALGA O CUANDO NO VAYA A UTILIZAR LA UNIDAD POR UN LARGO PERIODICO.	PRECAUZIONI: 1. UTILIZZARE SOLO IL CAVO DI ALIMENTAZIONE JVC IN DOTAZIONE A QUESTA UNITÀ PER EVITARE DISFUNZIONI O DANNI ALL'UNITÀ STESSA. 2. ACCERTARSI DI SCOLLEGARE IL CAVO DI ALIMENTAZIONE DALLA PRESA DI RETE QUANDO SI ESCE O QUANDO SI PREVEDE DI NON UTILIZZARE L'UNITÀ PER UN PERIODO PROLUNGATO.			
Note: ● When there is a power failure lasting more than 5 minutes or the AC power cord is disconnected for more than 5 minutes, the timer/clock setting is erased from memory. Reset the clock when the power supply is restored.	Nota: ● Cuando hay un corte del suministro de energía eléctrica que dura más de 5 minutos, o cuando se desenchufa el cordón de CA durante más de 5 minutos, el ajuste del temporizador/reloj se borra de la memoria. Reajuste el reloj cuando vuelva el suministro de electricidad.	Nota: ● Quando si verifica un'interruzione di corrente di più di 5 minuti oppure quando il cavo di alimentazione rimane scollegato per più di 5 minuti, l'impostazione del timer/orologio viene cancellata dalla memoria. Ricollegare l'orologio quando l'alimentazione viene ripristinata.			

① Display window
 ① Function/Track number display
 ② Play time display
 ③ VOLUME level indicator
 ④ ACTIVE HYPER-BASS PRO indicator (AHP PRO)
 ⑤ CD number indicators (Disc 1-Disc 3)
 ⑥ CONTINUE play indicator
 ⑦ Repeat play indicator (CONTINUE)
 ⑧ Program mode indicator (PROGRAM)
 ⑨ RANDOM play indicator
 ⑩ ALL DISC indicator

● See page 32 for the clock adjustment.

⑪ POWER button
 ⑫ VOLUME buttons (+, -)
 ⑬ SOUND button
 ⑭ ACTIVE HYPER-BASS PRO button
 ⑮ SURROUND button and indicators
 ⑯ Remote sensor section
 ⑰ 3CD CONTROL buttons (DISC 1-DISC 3)
 ⑱ REPEAT play button
 ⑲ CD trays (DISC 1-DISC 3)
 ⑳ DIGITAL OUT OPTICAL terminal
 ㉑ CD tray (▲) open/close buttons (DISC 1-DISC 3)
 ㉒ CONTINUE play button

● Para el ajuste del reloj vea la página 32.

② Botón de alimentación (POWER)
 ③ Botones de volumen (VOLUME) (+, -)
 ④ Botón SOUND
 ⑤ Tasto Active Hyper-Bass Pro (ACTIVE HYPER-BASS PRO)
 ⑥ Tasto SURROUND ed indicatori
 ⑦ Sección sensor telemando
 ⑧ Tasti di controlli del 3CD (CD CONTROL) (DISC 1-DISC 3)
 ⑨ Tasto riproduzione ripetuta (REPEAT)
 ⑩ Piatti portadisco (DISC 1-DISC 3)
 ⑪ Terminal DIGITAL OUT OPTICAL
 ⑫ Botones (▲) de apertura/cierre del portadisco de CD (DISC 1-DISC 3)
 ⑬ Botón de reproducción continuada (CONTINUE)

① Finestrella display
 ① Indicación de función/numero brano
 ② Display tiempo de reproducción
 ③ Indicatore livello VOLUME
 ④ Indicatore Active Hyper-bass Pro (AHP PRO)
 ⑤ Indicadores del CD (Disco 1 - Disco 3)
 ⑥ Indicatore riproduzione continua (CONTINUE)
 ⑦ Indicatore riproduzione ripetuta (CONTINUE)
 ⑧ Indicatore modo programmatore (PROGRAM)
 ⑨ Indicatore riproduzione casuale (RANDOM)
 ⑩ Indicatore di tutti i dischi (ALL DISC)

① Interruttore alimentazione (POWER)
 ② Tasti volume (VOLUME) (+, -)
 ③ Tasto SOUND
 ④ Tasto Active Hyper-Bass Pro (ACTIVE HYPER-BASS PRO)
 ⑤ Tasto SURROUND ed indicatori
 ⑥ Tasto sensore telecomando
 ⑦ Tasti di controlli del 3CD (CD CONTROL) (DISC 1-DISC 3)
 ⑧ Tasto riproduzione ripetuta (REPEAT)
 ⑨ Piatti portadisco (DISC 1-DISC 3)
 ⑩ Terminal DIGITAL OUT OPTICAL
 ⑪ Tasti di apertura/chiusura del piatto portadisco (▲) (DISC 1 - DISC 3)
 ⑫ Tasto riproduzione continuata (CONTINUE)

① CD operation buttons
CD search buttons (\blacktriangleleft , \triangleright):
Press to locate the beginning of a track and to start forward/reverse search operations.
Stop/clear button (■):
Press to stop playing a CD or cancel programmed play.
CD play/pause button (▶ ■):
Press to play a CD or to stop temporarily.

② AUX button

③ Power STANDBY indicator

④ Botones para operación del CD
Botones (\blacktriangleleft , \triangleright) de búsqueda del CD:
Presiónelos para ubicar el principio de una pista o para iniciar las operaciones de búsqueda hacia adelante/atrás.
Botón (■) de parada/borrado:
Presiónelo para detener la reproducción de un CD o para cancelar la reproducción programada.
Botón de reproducción/pausa de CD (▶ ■):
Presiónelo para reproducir o detener temporalmente la reproducción de un CD.

⑤ Botón auxiliar (AUX)

⑥ Indicador de espera (STANDBY) de alimentación

⑦ Tasti funzionamento lettore CD
Tasti di ricerca dei brani del CD (\blacktriangleleft , \triangleright):
Premere questi tasti per localizzare l'inizio di un brano o per avviare le operazioni di ricerca in avanti/indietro.
Tasto arresto/cancellazione (■):
Premere questo tasto per interrompere la riproduzione di un CD o per cancellare la riproduzione programmata.
Tasto riproduzione/pausa (▶ ■):
Premarlo per riprodurre un CD oppure per interrompere temporaneamente la riproduzione.

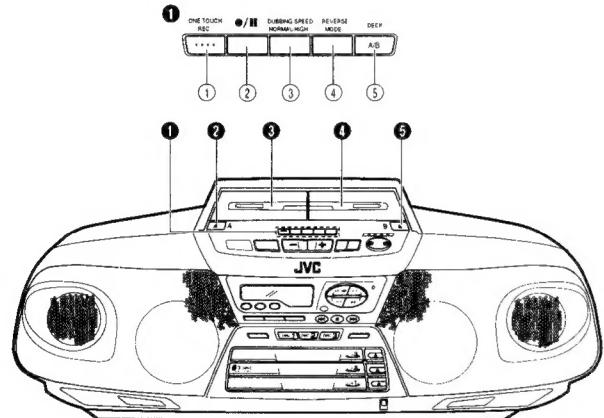
⑧ Tasto unità ausiliaria (AUX)

⑨ Indicatore di apparecchio in attesa (STANDBY)

Tuner/Deck section

Sección del sintonizador/platina

Sezione sintonizzatore/registratori



⑩ Cassette operation buttons
① ONE TOUCH REC button
② ■/■ button
③ DUBBING SPEED (NORMAL/HIGH) button
④ REVERSE MODE button
⑤ DECK A/B select button
⑥ Eject (▲) button (Deck A)
⑦ Cassette holder (Deck A)
⑧ Cassette holder (Deck B)
⑨ Eject (▲) button (Deck B)

⑩ Botones de operación del cassette
① Botón ONE TOUCH REC
② Botón ■/■
③ Botón DUBBING SPEED (NORMAL/HIGH)
④ Botón REVERSE MODE
⑤ Botón de selección DECK A/B
⑥ Botón de eyeción (▲) (Platina A)
⑦ Portacassette (Platina A)
⑧ Portacassette (Platina B)
⑨ Botón de eyeción (▲) (Platina B)

⑩ Tasti funzionamento registratore
① Tasto ONE TOUCH REC
② Tasto ■/■
③ Tasto DUBBING SPEED (NORMAL/HIGH)
④ Tasto REVERSE MODE
⑤ Tasto selezione DECK A/B
⑥ Tasto espulsione (▲) (Piatra A)
⑦ Vano portacassette (Piatra A)
⑧ Vano portacassette (Piatra B)
⑨ Tasto espulsione (▲) (Piatra B)

⑩ Display window
① Band indicator
② Radio frequency display
③ STEREO indicator
④ MONO indicator
⑤ Tape (TAPE) mode display
⑥ Dubbing speed indicator
⑦ Deck (A/B) select indicator
⑧ Tape direction indicator (\blacktriangleleft , \triangleright)
⑨ Recording indicator (REC)
⑩ Reverse mode indicator (\blacktriangleleft , \triangleright)

⑪ PRESET TUNING/AUTO PRESET button

⑫ Cassette operation buttons

◀ : Press to fast wind the tape from right to left or to start Music scan.
■ : Press to stop the tape.
▶ : Press to fast wind the tape from left to right or to start Music scan.
TAPE (\blacktriangleleft , \triangleright) : Press to select the TAPE mode.
: Press to play back the tape in the forward direction. The \triangleright indicator lights in the display window.
: Press to play back the tape in the reverse direction. The \blacktriangleleft indicator lights in the display window.

⑬ TUNER button
Press to select tuner mode.
Press to select the band.
Tuning buttons (\blacktriangleleft , \triangleright)

⑩ Ventanilla de indicación
① Indicador de banda
② Indicación de frecuencia de radio
③ Indicador estéreo (STEREO)
④ Indicador mono (MONO)
⑤ Indicación del modo de cinta (TAPE)
⑥ Indicación de la velocidad de copia
⑦ Indicación del selector de platina (A/B)
⑧ Indicador de la dirección de la cinta (\blacktriangleleft , \triangleright)
⑨ Indicador de grabación (REC)
⑩ Indicador del modo de inversión (\blacktriangleleft , \triangleright)

⑪ Botón de presintonización/presintonización automática (PRESET TUNING/AUTO PRESET)

⑫ Botones de operación del cassette

◀ : Presione el bobinado rápido de la cinta de derecha a izquierda o para iniciar la búsqueda de música.
■ : Presione la para parar la cinta.
▶ : Presione el bobinado rápido de la cinta de izquierda a derecha para iniciar la búsqueda de música.

TAPE (\blacktriangleleft , \triangleright) : Presínelo para seleccionar el modo TAPE.
: Presínelo para reproducir la cinta hacia adelante. El indicador \triangleright se enciende en la ventanilla indicadora.
: Presínelo para reproducir la cinta hacia atrás. El indicador \blacktriangleleft se enciende en la ventanilla indicadora.

⑬ Botón TUNER
Presínelo para seleccionar el modo de sintonizador.
Presínelo para seleccionar la banda.
Botones de sintonización (\blacktriangleleft , \triangleright)

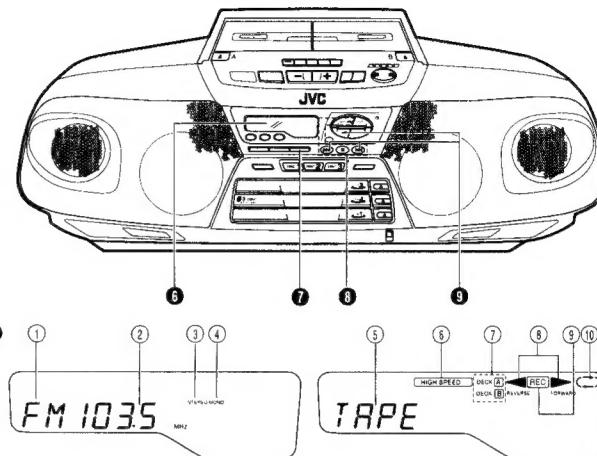
⑩ Finestrella display
① Indicador banda
② Display frecuencia
③ Indicador stereo (STEREO)
④ Indicador mono (MONO)
⑤ Display modo registratore (TAPE)
⑥ Indicatore velocità di duplicazione
⑦ Indicatore selezione piastra (A/B)
⑧ Indicatore della direzione del nastro (\blacktriangleleft , \triangleright)
⑨ Indicatore di registrazione (REC)
⑩ Indicatore modo reverse (\blacktriangleleft , \triangleright)

⑪ Tasto sintonizzazione preselezione/ preselezione automática (PRESET TUNING/AUTO PRESET)

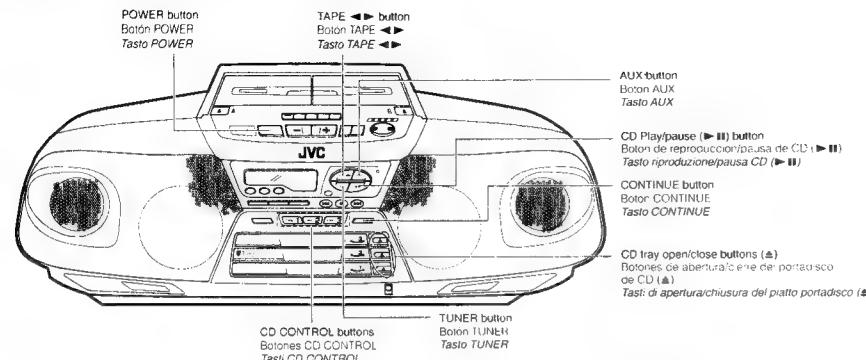
⑫ Tasti funzionamento registratore a cassette
◀ : Premere per avvolgere rapidamente il nastro da destra a sinistra oppure per avviare la ricerca musicale.
■ : Premere per interrompere lo scorrimento del nastro.
▶ : Premere per avvolgere rapidamente il nastro da sinistra a destra oppure per avviare la ricerca musicale.

TAPE (\blacktriangleleft , \triangleright) : Premere questo tasto per scegliere il modo TAPE.
: Premere questo tasto per riprodurre il nastro nella direzione normale. L'indicatore \triangleright del display si accende.
: Premere questo tasto per riprodurre il nastro nella direzione inversa. L'indicatore \blacktriangleleft del display si accende.

⑬ Tasto TUNER
Premere per selezionare il modo del sintonizzatore.
Premere per selezionare la banda.
Tasti sintonizzazione (\blacktriangleleft , \triangleright)



SWITCHING THE POWER ON/OFF	CONEXION/DESCONEXION DE LA ALIMENTACION	ACCENSIONE E SPEGNIMENTO
-----------------------------------	--	---------------------------------

**Switching the power on/off**

- Switching on:

**Conexión/desconexión de la alimentación**

- Conexión:

The STANDBY indicator goes out and only the clock and volume level are indicated.
Se enciende la indicación STANDBY. Se apaga la luz del visor de indicación: y sólo el reloj y el nivel de volumen quedan indicados.
L'indicatore STANDBY si spegne. Il display si spegne e rimangono visibili solo le indicazioni dell'orologio e del livello del volume.

- Switching off:

**Desconexión:**

- Desconexión:

• Spegnimento:

The STANDBY indicator lights. The display window is dark and only the clock and volume level are indicated.
Se enciende la indicación STANDBY. El display es oscuro y sólo el reloj y el nivel de volumen quedan indicados.
L'indicatore STANDBY si illumina. Il display è buio e rimangono visibili solo le indicazioni dell'orologio e del livello del volume.

One touch operation (COMPU PLAY)

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

Funcion mode Modo de función Modo di funzionamento	Operations Operaciones Operazioni
CD	When this button is pressed with a CD loaded, CD playback begins. Cuando se presiona este botón teniendo un CD colocado, comienza la reproducción del mismo. Se questo tasto viene premuto a lettore CD carico, la riproduzione del CD ha immediatamente inizio.
TAPE	When this button is pressed with a tape loaded, tape playback begins. Cuando se presiona este botón teniendo una cinta colocada, comienza la reproducción de la misma. Se questo tasto viene premuto a registratore a cassette carico, la riproduzione della cassetta ha immediatamente inizio.
TUNER	When this button is pressed, the tuner is engaged. Cuando se presiona este botón, se activa el sintonizador. Se questo tasto viene premuto, il sintonizzatore si accende.
AUX	A sound source connected to the AUX IN terminal can be engaged. Es posible activar una fuente de sonido que esté conectada al terminal AUX IN. Può attivare una sorgente di segnale collegata al terminale AUX IN.

Notes:

- When switching off the power, be sure to press the POWER button.
- The COMPU PLAY button on the remote control has the same function as that on the main unit.

Notas:

- Para desconectar la alimentación asegúrese de presionar el botón POWER.
- El botón COMPU PLAY del controlador remoto tiene la misma función que el de la unidad principal.

VOLUME, TONE AND OTHER CONTROLS	VOLUMEN, TONO Y OTROS CONTROLES	VOLUME, TONI ED ALTRI COMANDI
--	--	--------------------------------------

VOLUME button

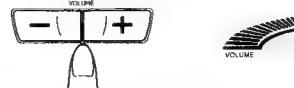
- + : Use to increase the volume.
- : Use to decrease the volume.

(Control range from VOL 0 to VOL 50.)

Botón VOLUME

- + : Uselo para aumentar el volumen.
- : Uselo para reducir el volumen.

(Los límites de control van de VOL 0 a VOL 50.)

**Tasto VOLUME**

- + : Per aumentare il volume.
- : Per diminuire il volume.

(La gamma di controllo va da VOL 0 a VOL 50.)

Tasto ACTIVE HYPER-BASS PRO

ON : L'indicatore AHB PRO si illumina. Selezionare questa impostazione per attivare la funzione Active Hyper Bass Pro.

OFF: Se spegne l'indicatore AHB PRO. Colóquelo en esta posición cuando no dese escuchar el sonido de hiper grave activo profesional.

Botón modo sonido

Los modos de sonido pueden ser seleccionados para realizar el tipo de música que está siendo reproducida.

ACTIVE HYPER-BASS PRO button

ON : The AHB PRO indicator lights up. Set to this position to activate ACTIVE HYPER-BASS PRO sound.

OFF: The AHB PRO indicator goes out. Set to this position when ACTIVE HYPER-BASS PRO sound is not required.

Sound mode button

Sound modes can be selected to enhance the type of music being played.

- Press the SOUND button to select the sound mode.
- Each time the SOUND button is pressed the sound mode changes as follows:

**Botón de hiper graves activos profesionales (ACTIVE HYPER-BASS PRO)**

ON : Se enciende el indicador AHB PRO. Colóquelo en esta posición para activar el sonido hiper grave activo profesional.

OFF: Se apaga el indicador AHB PRO. Colóquelo en esta posición cuando no dese escuchar el sonido de hiper grave activo profesional.

Botón modo suono

I modi del suono possono essere selezionati per personalizzare il tipo di musica riprodotta.

- Premere il tasto SOUND per selezionare il modo desiderato.
- Ogni volta che il tasto SOUND viene premuto, il modo cambia come indicato di seguito:

BEAT → POP → CLEAR → FLAT

Sound mode selection**BEAT:**

Set to this position for music with a heavy beat, such as rock or disco music.

POP:

Set to this position for light music including popular and vocal music.

CLEAR:

Set to this position for crisp and clear sounding music with transparent highs.

FLAT (No sound effect (flat characteristics):

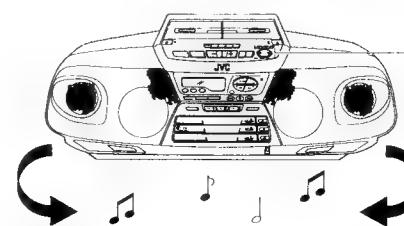
Set to this position when listening to classical music.

Note:

The selected modes only affect the sound output from the speakers or headphones. They do not affect the sound when recording, or the output from the DIGITAL OUT OPTICAL terminal.

Surround mode button

- Each time the SURROUND button is pressed the surround mode changes as follows:

**Selección del modo de sonido****BEAT:**

Colóquelo en esta posición para música con ritmo pesado tal como rock o música de discoteca.

POP:

Colóquelo en esta posición para música suave, incluyendo música popular y vocal.

CLEAR:

Colóquelo en esta posición para música clara con altos transparentes.

FLAT (Sin efecto de sonido (característica plana):

Colóquelo en esta posición para escuchar música clásica.

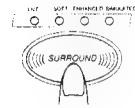
Nota:

Los modos seleccionados sólo afectan la salida de sonido proveniente de los altavoces o auriculares, pero no afectan el sonido cuando se graba o el que sale del terminal DIGITAL OUT OPTICAL.

Tasto modo circondamento

- Cada vez que presiona el botón SURROUND el modo de difusión de sonido cambia de la siguiente manera:

SURROUND button and indicators
Botón e indicación SURROUND
Tasto SURROUND ed indicatori



LIVE → SOFT → ENHANCED → SIMULATED
off
desactivada

Surround mode selection

LIVE:
Creates expanded sound that gives the feeling of a live performance.

SOFT:
Creates magnificently deep and calm sound that gives a pleasant feeling. (Suits background music.)

ENHANCED:
Creates clear, crisp, energetic sound that gives the feeling of a disco.

SIMULATED:
Creates rich sound even from a monaural sound source. (When this mode is applied to stereo sound, reproduction might deteriorate or be distorted.)

Notes:

- When the sound mode button is pressed while the surround mode is engaged, the unit enters the sound mode automatically.
- As the surround mode affects each sound source differently, select the mode to suit the sound you are listening to.
- When the SURROUND button is pressed, the sound output is interrupted for a moment. This is not a malfunction.
- The surround mode only affects the sound output from the speakers. It does not affect the sound when recording, or the output from the DIGITAL OUT OPTICAL terminal.

Selección del modo de difusión de sonido

LIVE:
Crea un sonido expansivo que da la impresión de provenir de música en vivo.

SOFT:
Crea un sonido magnífico, bajo y calmo con un sentimiento placentero. (Excelente para música de fondo).

ENHANCED:
Crea un sonido claro, contrastado y energético que parece el de una discoteca.

SIMULATED:
Crea un sonido rico aunque la fuente de sonido sea monótona. (Cuando se utiliza este modo con sonido estereofónico, la reproducción puede deteriorarse o presentar distorsión).

Notas:

- Cuando presiona el botón de modo de sonido mientras el modo de difusión de sonido está activado, la unidad ingresa automáticamente en el modo de sonido.
- Como el modo de difusión de sonido afecta en forma diferente cada fuente de sonido, seleccione el modo para que se adecue al sonido que usted está escuchando.
- Cuando presiona el botón SURROUND, la salida de sonido es interrumpida durante un momento. Esto no es una falla.
- El modo de difusión de sonido sólo afecta la salida de sonido de los altavoces, no afecta el sonido cuando se está grabando o la salida del terminal DIGITAL OUT OPTICAL.

Selezione modo circondamento

LIVE:
Crea un suono ampio che fornisce l'atmosfera di un'esecuzione dal vivo.

SOFT:
Crea un suono calmo e profondo di piacevole ascolto. (Ottimo per musica di sfondo).

ENHANCED:
Crea un suono chiaro, nitido ed energetico come quello di una discoteca.

SIMULATED:
Crea un suono ricco anche da una fonte mono. (Quando questo modo viene attivato con suono stereofonico, la riproduzione può deteriorare o essere distorta).

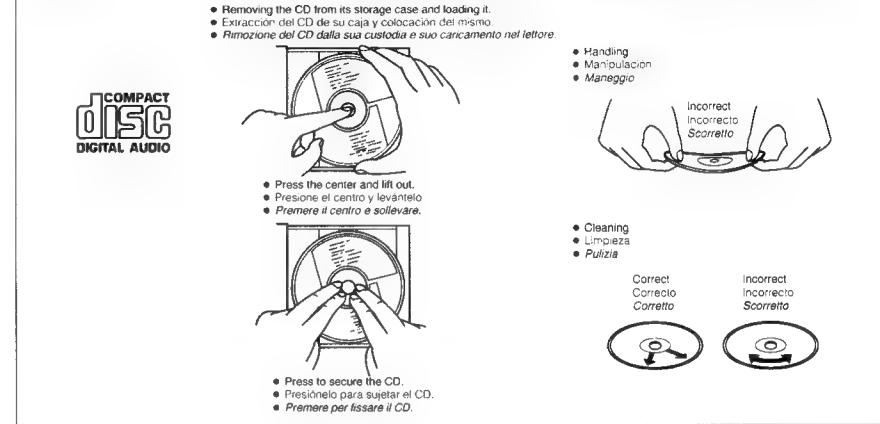
Note:

- Quando tasto del modo del suono viene premuto mentre il modo di circondamento è attivato, l'unità entra in un modo del suono automatico.
- Dato che il modo di circondamento influenza ciascuna fonte in modo diverso, selezionare il modo più adatto al tipo di musica ascoltato.
- Quando il tasto SURROUND viene premuto, l'uscita del suono viene interrotta per un attimo. Ciò non rappresenta una disfunzione.
- Il modo di circondamento influenza solo l'uscita del suono dai diffusori. Esso non influenza il suono registrato o l'uscita del terminale DIGITAL OUT OPTICAL.

- Never use thinner, benzine, record cleaner or antistatic spray.

- Nunca utilice solvente, bencina, limpiador de discos o aerosol antiestático.

- Non utilizzare mai diluente, benzina, liquido pulente per dischi o spray antistatici.



PLAYING CDs

(Example: When playing back a CD loaded in the DISC 1 tray, which contains 12 tracks and whose total playback time is 48 minutes and 57 seconds.)

Operate in the order shown

REPRODUCCION DE CD

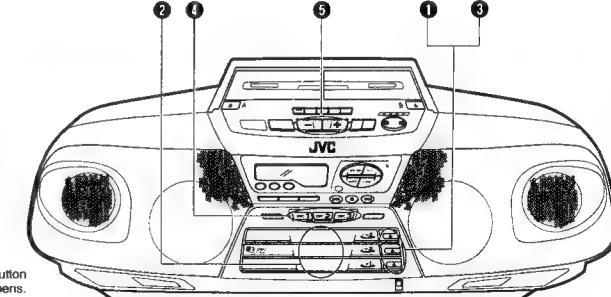
(Ejemplo: Cuando se reproduce un CD cargado en DISC 1 portadisco, que contiene 12 pistas y cuyo tiempo de reproducción total es 48 minutos y 57 segundos.)

Operar en el orden mostrado

RIPRODUZIONE DI CD

(Esempio: Se si riproduce un CD caricato nel piatto DISC 1 e che contiene 12 brani e la cui durata complessiva è di 48 minuti e 57 secondi.)

Eseguire le operazioni nell'ordine indicato



- Press the required CD tray open/close button (Δ) (DISC 1 to DISC 3). The CD tray opens. (The power is switched on.)
- Load a CD with the label side facing up.



- Press the CD tray open/close button (Δ) to close the CD tray.
- Repeat the above procedures to load the other CDs.
- Press the required CD CONTROL button (DISC 1 to DISC 3), necessary for initiating the reproduction.

⑤ Adjust.

- Premere il tasto di apertura/chiusura del piatto portadisco richiesto (Δ) (da DISC 1 a DISC 3). El portadisco de CD se abre. (Se conecta la alimentación.)
- Coloque un CD con la etiqueta apuntado hacia arriba.
- Premese el botón (Δ) de abertura/cierre del portadisco de CD para cerrarlo.

- Inserire un CD col lato etichettato rivolto in alto.
- Premere il tasto di apertura/chiusura del piatto portadisco (Δ) per far chiudere il piatto stesso.

- Ripetere la procedura per caricare gli altri CD.
- Premere il tasto CD CONTROL richiesto (da DISC 1 a DISC 3) per iniziare la riproduzione.

- Regolare.



HANDLING CDs

Since dirty, damaged and warped CDs may damage the unit, take care regarding the following:

1. Usable CDs

Use CDs with the mark shown.

2. Notes on handling CDs

- Do not touch the reflective recorded surface.
- Do not stick or write anything on the label side.
- Do not bend CDs.

3. Storage

- After removing a CD from the unit, be sure to put it back in its case.
- Do not expose CDs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.

4. Cleaning CDs

- Before loading a CD, wipe off any dust, dirt or fingerprints with a soft cloth. CDs should be cleaned by wiping radially from the center to the edge.

MANIPULACION DE CD

Como los CD sucios, dañados o alabeados pueden dañar la unidad, tome precauciones en relación a lo siguiente:

1. CD utilizables

Utilice CD con la marca indicada.

2. Notas sobre manipulación de CD

- No toque la superficie grabada rellejante.
- No adhiera ni escriba nada sobre el lado de la etiqueta.
- No doble los CDs.

3. Almacenamiento

- Después de extraer un CD de la unidad, asegúrese de colocarlo otra vez en su caja.
- No exponga los CD a la luz directa del sol, altas temperaturas provenientes de un calentador, etc., alta humedad, o polvo.

4. Limpieza de CD

- Antes de colocar un CD, límpie el polvo, suciedad o huellas digitales, con un paño suave. Los CD deben ser limpiados radialmente desde el centro hacia el borde.

MANEGGIO DEI CD

Dato che CD sporchi, danneggiati o deformati possono danneggiare l'unità, fare attenzione a quanto segue:

1. CD utilizzabili

Utilizzare solo CD recanti il marchio indicato.

2. Note sul maneggio dei CD

- Non toccare la superficie registrata iridescente.
- Non incollare o scrivere alcunché sul lato etichettato.
- Non piegare i CD.

3. Conservazione

- Dopo aver remosso un CD dall'unità, accertarsi di riporlo nella sua custodia.
- Non esporre i CD alla luce solare diretta, a temperature elevate, ad umidità elevate o a polvere.

4. Pulizia CD

- Prima di inserire un CD, pulire polvere, sporco o impronte digitali con un panno morbido. I CD devono essere puliti radialmente, dal centro verso il bordo.

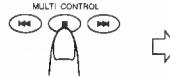
- When the mode is changed or the power is switched off, press the Eject (▲) buttons to confirm which trays hold CDs, then press the appropriate CD CONTROL buttons (DISC 1 to DISC 3).
- During CD playback, other CDs can be exchanged by opening their trays with the appropriate CD tray open/close buttons (▲).
- 8-cm (3") CDs can be used in this unit without an adapter.

Notes:

- When the POWER button is set to STANDBY, or another mode (TAPE, TUNER or AUX) is selected, the last CD played is stored in memory. The same CD will be played when the power is switched on again and the ▶ II button is pressed.
- When a CD tray is open, press any of ▶ II, ▲ or the CD CONTROL buttons (DISC 1 to DISC 3), and the tray will close.

When the AC power cord is unplugged, never close the open tray by hand. To close it, plug the power cord in again and press the ▲ button. Otherwise it may cause damage to the unit.

- To stop in the middle of a CD During play, press the stop/clear (■) button to stop play.



- To stop a CD temporarily Press the CD (▶ II) button to stop play temporarily and the playing time display blinks. When pressed again, play resumes from the point where it was paused.

- Notes:**
 - The following indication may appear when a CD is dirty or scratched, or when the CD is loaded upside down. In such case, check the CD and insert again after cleaning the CD or turning it over.
 - When the CD ▶ II or DISC 1 through 3 buttons are pressed with no CDs loaded in the trays, "000000" is displayed.

- Cuando se cambia el modo o cuando se desconecta la alimentación, presione el botón de eyeción (▲) para confirmar los portadiscos que contienen CD, y presione los botones CD CONTROL apropiados (DISC 1 a DISC 3).
- Durante la reproducción de CD, otros CD pueden ser intercambiados abriendo los portadiscos con los botones (▲) de apertura/cierre del portadisco de CD apropiado.
- Los CD de 8-cm pueden ser usados con esta unidad sin necesidad de adaptador.

Notas:

- Cuando se coloca el botón POWER en STANDBY o en otro modo, se activará (TAPE, TUNER o AUX). El último CD reproducido es almacenado en memoria. El mismo CD será reproducido cuando se conecte otra vez la alimentación y presione el botón ▶ II.
- Cuando el portadisco de CD esté abierto: presione cualquiera de los botones ▶ II, ▲ o CD CONTROL (DISC 1 a DISC 3), y se cierra el portadisco.

Cuando se desenchufa el cordón de alimentación CA, nunca cierre el portadisco con la mano. Para cerrarlo, encienda otra vez el cordón de alimentación y presione el botón ▲. De lo contrario podrá dañar la unidad.

- Para detener la reproducción de un CD en mitad de la misma Presione el botón (■) de parada/ borrad para detener la reproducción.

TRACK 1 1248:57 ①
• The total number of tracks and total playback time are displayed.
• La unidad indica el número total de pistas y el tiempo total de reproducción.
• Viene visualizzato il numero totale di brani ed il tempo totale di riproduzione.

- Para detener la reproducción de un CD Presione el botón CD (▶ II) para detener temporalmente la reproducción. La indicación de tiempo de reproducción parpadea. Para continuar la reproducción desde el punto donde se hizo la pausa, presione otra vez el botón mencionado.

- Notes:**
 - L'indicazione seguente può apparire quando un CD è sporco o graffiato oppure quando il CD viene inserito capovolto. In tal caso, ispezionate il CD e colocalo ora vez despues de limpiarlo o invertirlo.
 - Cuando presiona el botón CD ▶ II o DISC 1 a DISC 3 sin que haya un CD colocado, la indicación muestra "000000".

000000

- No utilice la unidad en un lugar con altas o bajas temperaturas. Los límites recomendados de temperatura son 5°C a 35°C.
- Después de la reproducción, retire los CD y cierre los portadiscos.
- Si ocurre una falla de seguimiento durante la reproducción, reduzca el volumen.
- Antes de transportar la unidad y si es posible, extraiga todos los discos de los portadiscos.

- Quando il modo viene cambiato o quando l'alimentazione viene disattivata, premere il tasto di espulsione (▲) per confermare quali piatti contengono CD e quindi premere i tasti CD CONTROL appropriati (da DISC 1 a DISC 3).
- Durante la riproduzione di un CD, altri CD possono essere cambiati aprendendo i portadiscos con i tasti (▲) di apertura/chiusura del portadisco di CD appropriato.
- Le riproduzione di CD da 8 cm non richiede l'uso di alcun adattatore.

Note:

- Quando il tasto POWER viene impostato su STANDBY oppure quando viene selezionato un altro modo (TAPE, TUNER, AUX), l'ultimo CD riprodotto viene memorizzato. Lo stesso CD viene riprodotto quando l'alimentazione viene riattivata ed il tasto ▶ II viene premuto.
- Cuando il portadisco di CD è aperto: premere uno dei tasti ▶ II, ▲ o CD CONTROL (da DISC 1 a DISC 3) per chiudere il piatto.

Se el cable de alimentación viene saclegado, no rchidere i piatti portadisco a mano. Per farlo, ricollegare el cable de alimentación e premere el tasto ▲. Itremo si può danneggiare l'apparecchio.

- Per l'interruzione nel mezzo di un CD Presione el botón (■) de parada/ borrad para interrumpere la reproducción.

TRACK 1 1248:57 ①
• La unidad indica el número total de pistas y el tiempo total de reproducción.
• Viene visualizzato il numero totale di brani ed il tempo totale di riproduzione.

- Per interrompere temporaneamente la reproducción de un CD Presione el tasto CD (▶ II) para interrumpere temporalmente la reproducción e far lampegiare la visualizzazione del tiempo de reproducción. Cuando el tasto viene premuto nuevamente, la reproducción vuelve a partir del punto en el que era stata interrotta.

- Notes:**
 - L'indicazione seguente può apparire quando un CD è sporco o graffiato oppure quando il CD viene inserito capovolto. In tal caso, controllare il CD e reinserirlo dopo aver pulito o invertito.
 - Cuando presiona el botón CD ▶ II o DISC 1 a DISC 3 sin que haya un CD colocado, la indicación muestra "000000".

- Non utilizzare l'unità con temperature eccessivamente alte o basse. La gamma raccomandata per la temperatura va da 5°C a 35°C.
- Dopo la riproduzione, rimuovere i CD e chiudere i piatti.
- Se la riproduzione dovesse saltare, abbassare il volume.
- Prima di trasportare l'unità, estrarre i CD dai piatti se possibile.

Skip play

- During play, it is possible to skip forward to the beginning of the next track or back to the beginning of the track being played or the previous track; when the beginning of the required track has been located, play starts automatically.

To listen to the next track...
Press the ►► button once to skip to the beginning of the next track.

To listen to the previous track...
Press the ◀◀ button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.

Search play (to locate the required position on the CD)

- The required position can be located using fast-forward or reverse search while playing a CD.

Keep pressing for fast-reverse search.
Mantenga presionado para la búsqueda regresiva rápida.
Tenere premuto per la ricerca rapida all'indietro.

- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

MULTI CONTROL
Keep pressing for fast-forward search.
Mantenga presionado para la búsqueda progresiva rápida.
Tenere premuto per la ricerca rapida in avanti.

Reproducción con salto

- Durante la reproducción es posible saltar hacia adelante hasta el principio de la próxima pista o hacia atrás hasta el principio de la pista que está siendo reproducida o de la pista anterior, cuando haya localizado el principio de la pista deseada, la reproducción se inicia automáticamente.

Para escuchar la próxima pista...
Presione una vez el botón ►► para saltar al principio de la próxima pista.

Para escuchar la pista anterior...

Presione el botón ◀◀ para saltar al principio de la pista que está siendo reproducida. Presione dos veces rápidamente para saltar al principio de la pista anterior.

Reproducción con búsqueda (para localizar la posición deseada en el CD)

- La posición deseada puede ser ubicada utilizando la búsqueda de avance rápido o inversa mientras reproduce un CD.

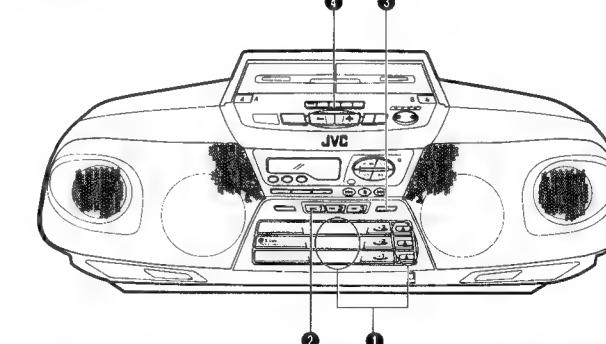
MULTI CONTROL
Keep pressing for fast-forward search.
Mantenga presionado para la búsqueda progresiva rápida.
Tenere premuto per la ricerca rapida in avanti.

- Mantenga presionado el botón; la búsqueda con reproducción se inicia lentamente y luego aumenta gradualmente la velocidad.
- Como en el modo de búsqueda es posible escuchar el sonido a bajo volumen (aproximadamente a un cuarto del nivel normal), monitoree el sonido y suelte el botón cuando haya localizado la posición deseada.

Continuous play

How to play all tracks
Operate in the order shown

Reproducción continua
Reproducción de todas las pistas
Operare en el orden mostrado



- Load a CD in each tray (DISC 1-DISC 3).
- Press the CD CONTROL button (DISC 1) to start play.
- Press the CONTINUE button to set continuous play mode.

- Adjust.

- CD play starts from DISC 1 and continues to the last track of the last CD in the CD changer.
- When a CD is loaded in each tray, continuous play can be started by pressing any CD CONTROL button (DISC 1 to DISC 3). Continuous play ends with the last track of the CD loaded in the DISC 3 tray.

Riproduzione con salto

- Durante la riproduzione è possibile saltare all'inizio del brano successivo oppure all'inizio del brano in corso di riproduzione o di un brano precedente; la riproduzione inizia automaticamente quando l'inizio del brano desiderato viene raggiunto.

Per ascoltare il brano successivo...
Premere una volta il tasto ►► per saltare all'inizio del brano successivo.

Per ascoltare il brano precedente...

Premere il tasto ◀◀ per saltare all'inizio del brano in corso di riproduzione. Premere due volte in rapida successione per saltare all'inizio del brano precedente.

Riproduzione con ricerca (para localizar una determinada posición sul CD)

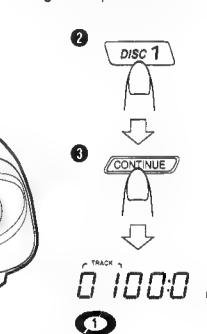
- La posición deseada può essere localizada utilizando la ricerca rápida in avanti o all'indietro durante la reproducción de un CD.

MULTI CONTROL
Keep pressing for fast-forward search.
Mantenga presionado para la búsqueda progresiva rápida.
Tenere premuto per la ricerca rapida in avanti.

- Tener premuto il tasto; la reproducción con ricerca inizia lentamente e quindi aumenta gradualmente de velocidad.
- Dato che il suono può essere udito a basso volume (circa un quarto del livello normale) nel modo di ricerca, ascoltare e rilasciare il tasto quando la posición deseada viene raggiunta.

Riproduzione continua

Come riprodurre tutti i brani
Eseguire le operazioni nell'ordine indicato



- Caricare un CD in ciascun piatto (DISC 1 - DISC 3).
- Premere il tasto CD CONTROL (DISC 1) per dare inizio alla riproduzione.
- Premere il tasto CONTINUE per impostare il modo di riproduzione continua.

- Regolare.

- La riproducción del CD comienza por el DISC 1 y continúa hasta la última pista del último CD en el cambiador.
- Cuando se coloca un CD en cada portadisco, la reproducción continua puede ser activada presionando cualquiera de los botones CD CONTROL (DISC 1 a DISC 3). La reproducción continua termina con la última pista del CD colocado en el portadisco DISC 3.

- La riproducción del CD inizia dal disco DISC 1 e continua sino all'ultimo brano dell'ultimo CD del lettore cambiabandi.
- Quando un CD è presente in ciascun piatto, la riproduzione continua può essere iniziata premendo un qualsiasi tasto CD CONTROL (da DISC 1 a DISC 3). La riproduzione continua termina con l'ultimo brano del CD del piatto DISC 3.

Notes:

- During CD play, continuous play will not function if another CD tray is open.
- While CDs are being changed in the CD changer, there will be a short delay after pressing the Δ button until the CD tray opens.

DISC CONTROL button

- Direct Disc Selection**

Press the CD CONTROL button (DISC 1 to DISC 3) corresponding to the No. of the required CD.

Example: To designate Disc 2

Notas:

- Durante la reproducción de CD, la reproducción continuada no funciona si otro portadisco de CD está abierto.
- Mientras se están cambiando los CD en el cambiador, habrá un breve retraso después de presionar el botón Δ hasta que se abra el portadisco de CD.

Botón DISC CONTROL

- Selección directa de disco**

Presione el botón (DISC 1 a DISC 3) de CD CONTROL correspondiente al No. del CD deseado.

Ejemplo: Para designar el disco 2



The tracks on the designated CD are played in sequence.

Note:

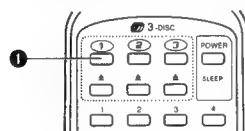
- When "PROGRAM" is shown in the display and the direct select operation is performed, the CD cannot be played.

Direct access play (using the remote control unit)

Example 1: To designate Disc 1

Reproducción por acceso directo (utilizando la unidad de control remoto)

Ejemplo 1: Para seleccionar el disco 1

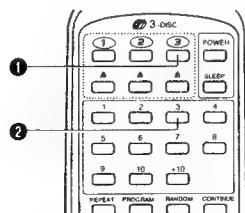


- Designate the required CD using CD CONTROL button (DISC 1 to DISC 3).
- CD play starts.

- ① Seleccione el CD deseado utilizando el botón CD CONTROL (DISC 1 a DISC 3).
- Se inicia la reproducción de CD.

Example 2: To designate the 3rd track of Disc 3

Ejemplo 2: Para seleccionar la 3ra. pista del disco 3



- Designate the required CD using the CD CONTROL buttons (DISC 1 to DISC 3).
- The track number is displayed and the required track number is selected using the track button.
- CD play starts.

- ② Seleccione el CD deseado utilizando los botones CD CONTROL (DISC 1 a DISC 3).
- ③ Se visualizarán los números de pista, seleccione el número de pista deseada utilizando el botón de pista.
- Se inicia la reproducción del CD.

- To designate track numbers 1 to 10, press the track number button corresponding to the track number.

- ④ Para designar las pistas del número 1 al 10, presione el botón de número de pista correspondiente a la misma.

Nota:

- Durante la reproducción de un CD, la reproducción continua no ha lugar se un altro piatto portadisco è aperto.
- Mientras se están cambiando los CD en el cambiador, habrá un breve retraso después de presionar el botón Δ hasta que se abra el portadisco de CD.

Tasto DISC CONTROL

- Selezione diretta dei CD**

Premere il tasto CD CONTROL (DISC 1 - DISC 3) corrispondente al numero del CD richiesto.

Esempio: Per designare il disco 2

I brani sul disco indicato vengono riprodotti in sequenza.

Nota:

- Quando l'indicazione "PROGRAM" viene visualizzata e si esegue l'operazione di selezione diretta, il CD non può essere riprodotto.

Riproduzione ad acceso diretto (utilizzando l'unità di telecomando)

Esempio 1: Per designare il disco 1

- To designate track number 11 or higher, press the +10 button the required number of times, then a track number button. (Example: To designate the 20th track, press the +10 button once, then press track number button 10.)

- +10 button:
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

- Para designar el número de pista 11 o superior, presione el botón +10 el número necesario de veces, y luego un botón de número de pista. (Ejemplo: Para designar la pista 20, presione el botón +10 una vez, y luego presione el botón 10 de número de pista.)

- +10:
Cada vez que presiona este botón el número se incrementa en 10. Primero presione este botón para ingresar las decenas, luego presione el botón de número de pista para ingresar las unidades.

- Per designare il numero 11 o un numero maggiore, premere il tasto +10 per il numero di volte necessario e quindi un tasto numero. (Esempio: Per indicare il 20° brano, premere una volta il tasto +10 e quindi il tasto di numero di brano 10).

- Tasto +10:
Ogni volta che questo tasto viene premuto, il numero aumenta di 10. Premere questo tasto per impostare le decine e quindi premere un tasto numero per impostare le unità.

Repeat play

Press the REPEAT button before or during play. It is possible to perform repeat play of a single track, all tracks on one CD, or all tracks on all CDs in the CD changer.

Each time the REPEAT button is pressed, the mode will change in the order from a single track (\leftarrow), to all tracks (\leftarrow ALL), to clear mode.



- Single track repeat (\leftarrow)**
The current or specified track will be played repeatedly.

- All tracks of one CD repeat (\leftarrow ALL)**
All tracks on the current or specified CD will be played repeatedly.

- All tracks of all CDs repeat (ALL DISC. CONTINUE, \leftarrow ALL)**
When the CONTINUE button is pressed in the " \leftarrow ALL" mode, CD play starts from the current or specified track, then all tracks on all CDs will be played repeatedly.

- Repetición de una sola pista (\leftarrow)**
La pista actual o la especificada será reproducida repetidamente.

- Repetición de todas las pistas de un CD (\leftarrow ALL)**
Todas las pistas del CD actual o del especificado serán reproducidas repetidamente.

- Repetición de todas las pistas de todos los CD (ALL DISC. CONTINUE, \leftarrow ALL)**
Cuando se presiona el botón CONTINUE estando el modo " \leftarrow ALL" activado, la unidad inicia la reproducción del CD desde la pista actual o desde la especificada, y luego de todas las pistas de todos los CD son reproducidas repetidamente.

- Ripetizione di un singolo brano (\leftarrow)**
Il brano attuale o da voi indicato viene riprodotto più volte.

- Ripetizione di un Intero CD (\leftarrow ALL)**
Tutti i brani del CD attuale o programmato vengono riprodotti ripetutamente.

- Ripetizione di tutti i CD (ALL DISC. CONTINUE, \leftarrow ALL)**
Se il tasto CONTINUE viene premuto nel modo " \leftarrow ALL", la riproduzione dei CD dal brano attualmente in riproduzione o da un brano specificato, quindi tutti i brani dei CD vengono riprodotti più volte.

Random play (using the remote control unit)

Press the RANDOM button before or during play. It is possible to perform random play from one or all CDs.

- One disc random (RANDOM)**
Press the RANDOM button to randomly play tracks on the current or specified CD, except in continuous mode.

- All disc random (ALL DISC, CONTINUE, RANDOM)**
Press the RANDOM button in continuous play mode to randomly select and play tracks from all of the CDs in the CD changer.

- Todos los discos aleatoriamente (ALL DISC, CONTINUE, RANDOM)**
Presione el botón RANDOM en el modo de reproducción continua para seleccionar aleatoriamente y reproducir las pistas de todos los CD en el cambiador.

Riproducción aleatoria (utilizando la unidad de control remoto)

Presione el botón RANDOM antes o durante la reproducción. Es posible ejecutar la reproducción aleatoria de uno o de todos los CD.

- Un disco aleatorio (RANDOM)**
Presione el botón RANDOM para reproducir aleatoriamente las pistas del CD colocado o de uno especificado, excepto cuando el modo de reproducción continua esté activado.

- Todos los discos aleatoriamente (ALL DISC, CONTINUE, RANDOM)**
Presione el botón RANDOM en el modo de reproducción continua para seleccionar aleatoriamente y reproducir las pistas de todos los CD en el cambiador.

- Notas:**
 - Mientras el modo de reproducción (\leftarrow) de una sola pista está activado la reproducción aleatoria no funciona.
 - Que cierta pista sea reproducida varias veces durante la reproducción aleatoria no es una falla.
 - La reproducción aleatoria de todos los discos no funciona cuando hay un portadisco de CD abierto que no sea el que se está reproduciendo.

- Riproduzione casuale di un solo CD (RANDOM)**
Premere il tasto RANDOM per riprodurre in ordine casuale i brani del CD al momento riprodotto o programmato, salvo nel modo di riproduzione continua.

- Riproduzione casuale di tutti i CD (ALL DISC, CONTINUE, RANDOM)**
Premere il tasto RANDOM nel corso del modo di riproduzione continua per riprodurre in ordine casuale i brani dei CD caricati nel lettore multiplo.

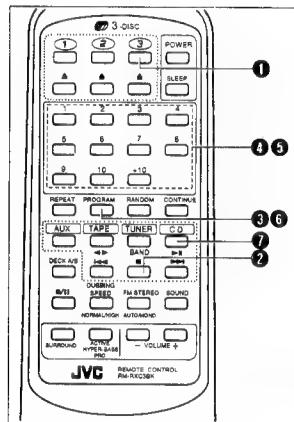
- Notas:**
 - Nel modo di ripetizione di un singolo brano (\leftarrow), la riproduzione casuale non funziona.
 - Può accadere che nel corso della riproduzione casuale un brano venga riprodotto più volte.
 - Se viene aperto un piatto portadisco diverso da quello al momento in riproduzione, la riproduzione casuale di tutti i CD non funziona.

Programmed play (using the remote control unit)

- Up to 20 tracks can be programmed to be played in any required order from one CD or all CDs in the CD changer.

Example : (CD containing more than 12 tracks)

Example 1 : Programming tracks from disc 3 (tracks 2, 5, and 12).



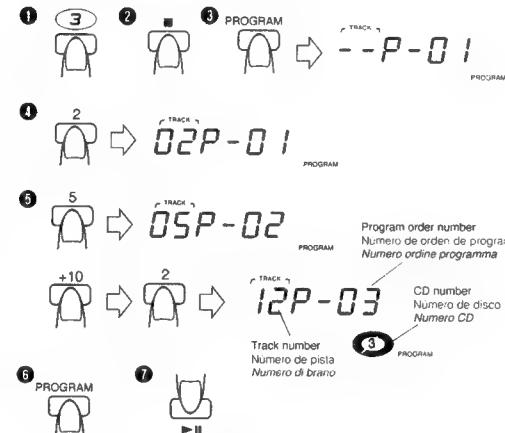
- Press the No. 3 CD CONTROL button.
- Press the ■ button.
- Press the PROGRAM button to set to the programming mode.
- Press to designate the required track number.
- Designate the remaining tracks by pressing the track number buttons.
- Press the PROGRAM button to confirm program details.
 - Repeat from step ② to readjust the program.
 - Repeat from step ④ to add to the program.
- Press the ► II button when programming is completed. Programmed play starts.

Reproducción programada (utilizando la unidad de control remoto)

- Es posible programar un máximo de 20 pistas para reproducirlas en cualquier orden deseado, de un CD o de todos los CDs en el cambiador.

Ejemplo : (CD conteniendo más de 12 pistas)

Ejemplo 1 : Programación de pistas del disco 3 (pistas 2, 5, y 12).

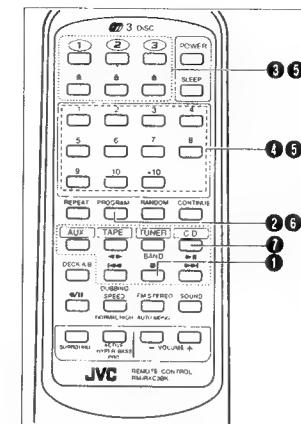


- Presione el botón No. 3 de CD CONTROL.
- Presione el botón ■.
- Para activar el modo de programación, presione el botón PROGRAM.
- Presione para seleccionar el número deseado de pista.
- Designare las pistas restantes presionando los botones del numero de pista.
- Presione el botón PROGRAM para confirmar los detalles del programa.
 - Repita desde el paso ② para readjustar el programa.
 - Repita desde el paso ④ para agregar al programa.
- Cuando termine la programación, presione el botón ► II. Se iniciará la reproducción programada.

To confirm the details of a program...
Press the PROGRAM button in stop mode: the tracks making up the program will be displayed in programmed order.

To clear the programmed tracks ...
Press the ■ button before playing a CD. During programmed play, press this button twice.

- Example 2: Programming tracks from 2 or more CDs in the order of disc 1 (track 6), disc 1 (track 1), and disc 3 (track 12).



- Press the ■ button.
- Press the PROGRAM button to set to the programming mode.
- Designate the required CD using the CD CONTROL buttons (No. 1 to No. 3).
- Designate the required track using the track number buttons (No. 1 to No. 10, and +10).
- Repeat steps ③ and ④ to designate the other tracks.
- Press the PROGRAM button to confirm program details.
 - Repeat from step ② to readjust the program.
 - Repeat from step ④ to add to the program.
- Press the ► II button when programming is completed. Programmed play starts.

When performing CD syncro recording or timer playback in the order of "Programmed play," do not press the ► II button.

To confirm the details of a program...

Press the PROGRAM button in stop mode: the tracks making up the program will be displayed in programmed order.

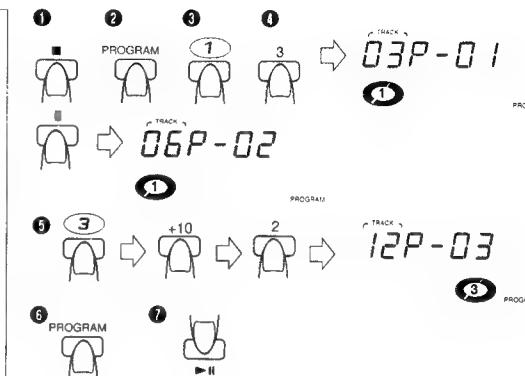
To clear the programmed tracks ...

Press the ■ button before playing a CD. During programmed play, press this button twice.

Notes:

- Programming is possible even when a CD tray is open. (The tracks on the CD can be confirmed as the labels are visible.)
- Programmed tracks are not cleared even if the CD tray is open.
- During programmed play from more than 2 CDs, if a CD tray is open, programmed play will not function.

- Ejemplo 2: Programación de pistas de 2 o más CD en el siguiente orden: disco 1 (pista 3), disco 1 (pista 6), y disco 3 (pista 12).



- Presione el botón ■.
- Premere il tasto PROGRAM per impostare il modo di programmazione.
- Indicare il CD desiderato con i tasti CD CONTROL (dal N. 1 al N. 3).
- Selezionare il brano desiderato utilizzando i tasti numerici (da 1 a 10 e +10), di numero di pista.
- Repetire i passi ① e ② per selezionare altre pistas.
- Premere il tasto PROGRAM per confermare i dettagli del programma.
 - Repetere il passo ② per reimpostare il programma.
 - Repetere il passo ④ per aggiungere al programma.
- Premere il tasto ► II per eseguire aggiunte al programma.
- Cuando termina la programmazione presione il botón ► II. Se inizia la reproducción programada.

Quando si esegue la registrazione sincronizzata di CD oppure la riproduzione col timer nell'ordine della riproduzione programmata, non premere il tasto ► II.

Para confirmar los detalles de un programa...

Presione el botón PROGRAM en el modo de parada: las pistas que componen el programa aparecerán indicadas en el orden programado.

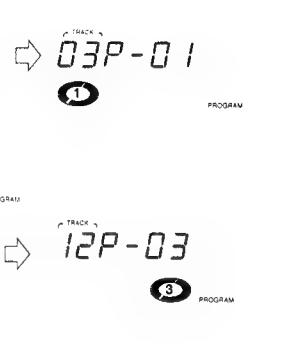
Para borrar las pistas programadas...

Presione el botón ■ antes de reproducir el CD. Durante la reproducción programada precione este botón dos veces.

Notas:

- La programación es posible aunque haya un portadisco de CD abierto. (Las pistas del CD pueden ser confirmadas en las etiquetas visibles.)
- Las pistas programadas no se borrarán si se abre el portadisco de CD.
- Durante la reproducción programada de más de 2 CD, si hay un portadisco de CD abierto, la reproducción programada no funcionará.

- Esempio 2: Programmazione di brani da 2 o più CD nell'ordine CD 1 (brano 3), CD 1 (brano 6) e CD 3 (brano 12).



- Premere il tasto ■.
- Premere il tasto PROGRAM per impostare il modo di programmazione.
- Indicare il CD desiderato con i tasti CD CONTROL (dal N. 1 al N. 3).
- Selezionare il brano desiderato utilizzando i tasti numerici (da 1 a 10 e +10), di numero di pista.
- Repetere le fasi ① e ② per selezionare gli altri brani.
- Premere il tasto PROGRAM per controllare i dettagli del programma.
 - Repetere dalla fase ① per reimpostare il programma.
 - Repetere dalla fase ③ per aggiungere al programma.
- Premere il tasto ► II al termine della programmazione. La riproduzione programmata inizia.

Per controllare i dettagli di un programma...
Premere il tasto PROGRAM nel modo di arresto: i brani programmati vengono visualizzati nell'ordine programmato.

Per cancellare i brani programmati...

Premere il tasto ■ prima di riprodurre un CD. Premere il tasto due volte durante la riproduzione programmata.

Note:

- La programación es posible solo se un plato portadisco es abierto. (Los brani del CD pueden ser controlados mirando la etiqueta visible.)
- Los brani programados no se borran cuando se abre el plato portadisco.
- Durante la reproducción programada de más de 2 CD, si hay un portadisco de CD abierto, la reproducción programada no funcionará.

HANDLING CASSETTE TAPES**MANIPULACION DE CASSETTES DE CINTA****MANEGGIO DEI NASTRI A CASSETTA****Cassette tapes**

- Loose tape may cause trouble. Using a pencil or like object, gently tighten the tape as shown.
- To prevent recordings from being erased accidentally, remove the tab(s) with a screwdriver, etc. Reseal the slots with adhesive tape to erase and re-record after the tabs have been removed.
- C-120 cassettes are not recommended because they are prone to malfunction.

Cassettes de cinta

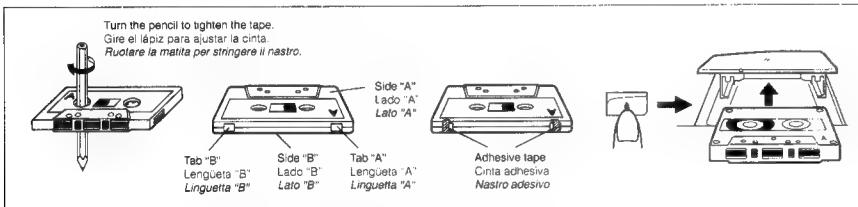
- La cinta floja puede causar problemas. Utilice un lápiz o un objeto similar y tensione gentilmente la cinta tal como se muestra.
- Para evitar borrar grabaciones accidentalmente, extraiga las lengüetas con un destornillador, etc. Para borrar la cinta después de haber extraído las lengüetas, sole las ranuras con cinta adhesiva.
- No se recomienda el uso de cassettes C-120 porque tienen tendencia a fallar.

Cassette loading

- Press the Eject (Δ) button to open the cassette holder.
- Load a cassette as shown.
- Close the cassette holder by pressing it gently. Listen for the click indicating that the holder is securely shut.

Colocación de cassettes

- Para abrir el portacassette presione el botón de ejección (Δ).
- Extraiga el cassette como se muestra.
- Cierre el portacassette presionándolo suavemente. Cuando oiga un "clic" ello indica que el portacassette está correctamente cerrado.

**Note:**

If the power is switched off while tape is running, it may be impossible to remove the cassette. If this happens, switch the power on again before attempting to remove the cassette.

Auto tape select mechanism

This unit has an Auto Tape Select mechanism which distinguishes between different types of tape using detection holes in the cassette. After the type of tape has been detected, bias and equalization suitable for the tape are set.

• Cassettes with detection holes:

Metal tape (EQ: 70 μ s) Type IV
 CrO₂ (chrome) tape (EQ: 70 μ s) Type II
 • Cassettes without detection holes:
 Normal tape (EQ: 120 μ s) Type I

Nota:

Si se desconecta la alimentación durante el transporte de cinta, puede que sea imposible extraer el cassette. Si ello ocurre, conecte la alimentación otra vez antes de intentar extraer el cassette.

Mecanismo de selección automática de la cinta

Esta unidad posee un mecanismo de selección automática de la cinta que distingue los diferentes tipos de cinta por medio de orificios de detección en el cassette. Después de haber detectado el tipo de cinta, la unidad establece la polarización y equalización adecuadas para la cinta.

Nota:

Se disconecta la alimentación durante lo scorrimento del nastro, potrebbe essere impossibile rimuovere la cassetta. Se ciò dovesse accadere, riattivare l'alimentazione prima di riprovare a rimuovere la cassetta.

Mecanismo per la selezione automatica del tipo di nastro

Questa unità possiede un meccanismo per la selezione automatica del tipo di nastro che è in grado di rilevare automaticamente il tipo di nastro utilizzato per mezzo dei fori appositi sulla cassetta. Una volta rilevato il tipo di nastro, la polarizzazione e l'equalizzazione adatte a tale tipo di nastro vengono impostate automaticamente.

• Cassette con orificios de detección:

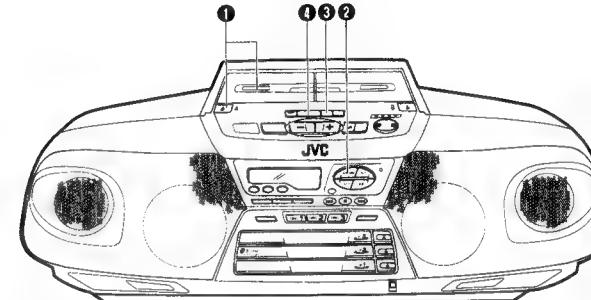
Cinta de metal (EQ: 70 μ s) Tipo IV
 Cinta de CrO₂ (cromo) (EQ: 70 μ s) ... Tipo II
 • Cassetes sin orificios de detección:
 Cinta normal (EQ: 120 μ s) Tipo I

**CASSETTE PLAYBACK****REPRODUCCION DE CASSETTES****RIPRODUZIONE DI CASSETTE**

(The example shows Deck A)
 Operate in the order shown

(El ejemplo muestra la platina A)
 Operé en el orden mostrado

(L'esempio mostra La piastra A)
 Eseguire le operazioni nell'ordine indicato



- Load a cassette tape with side A facing up.
- Press to start playback. (The power is switched on and the TAPE mode is engaged to start tape playback.)
- Select the reverse mode (\leftrightarrow).
- Adjust.
- After loading a cassette tape, simply press the TAPE \blacktriangleleft button. The power is switched on and the tape starts playback. (To select the playback direction, press the TAPE \blacktriangleleft button. The change in direction can be checked in the tape direction indicator (\blacktriangleleft or \triangleright)).

Note:
 When no tape is loaded in the deck, its tape playback direction can not be switched over.

- When the tape plays back with the reverse mode set to \leftrightarrow (single side play) or \leftrightarrow (both side play) mode, the tape stops automatically at the end of tape after playing one or both sides. When the reverse mode is set to the \rightarrow (continuous play) mode, the tape continuously plays one side after the other until you stop operation.

How to fast-wind tapes

- Press the TAPE \blacktriangleleft button (to set TAPE mode).
- Press the \blacksquare button.
- Press the \blacktriangleleft or \triangleright button.
 During tape playback, when the \blacktriangleleft or \triangleright button is pressed, music scan starts.

- Coloque un cassette con la cara A apuntando hacia arriba.
- Presínelo para iniciar la reproducción. (Se conecta la alimentación y se activa el modo TAPE para iniciar la reproducción de la cinta.)
- Seleccione el modo de inversión (\leftrightarrow).
- Ajuste.

Después de colocar un cassette de cinta, simplemente presione el botón TAPE \blacktriangleleft . Se conecta la alimentación y la cinta comienza a ser reproducida. (Para seleccionar el sentido de reproducción, presione el botón TAPE \blacktriangleleft). El cambio de dirección puede ser verificado en el indicador (\blacktriangleleft o \triangleright) de la dirección de la cinta.)

Note:
 Cuando no hay cinta colocada en la platina, la dirección de reproducción no puede ser invertida.

- La cinta está siendo reproducida en el modo de inversión colocado en el modo \leftrightarrow (reproducción de un solo lado) o en el modo \rightarrow (reproducción del nastro si interrumpe automáticamente al final del nastro dopo aver riprodotto un lato oppure entrambi i lati rispettivamente. Se viene scelto il modo di scorrimento in direzione inversa \leftrightarrow (reproduzione continua), la riproduzione dei due lati della cassetta continua senza fine sino a che non viene interrotta dall'utente.

- Inserire una cassette col lato A in alto.
- Premere il tasto di riproduzione. (L'unità si accende e il modo TAPE viene impostato, attivando il registratore a cassette).
- Selezionare il modo auto reverse (\leftrightarrow).
- Regolare.
- Caricato un nastro, premere il tasto TAPE \blacktriangleleft . L'unità si accende e il nastro viene riprodotto. (Per scegliere una direzione di riproduzione, premere il tasto TAPE \blacktriangleleft . Il cambio di direzione può essere controllato con l'indicatore della direzione del nastro (\blacktriangleleft o \triangleright)).

Note:
 Quando non è stato inserito alcun nastro, la direzione di riproduzione non può essere cambiata.

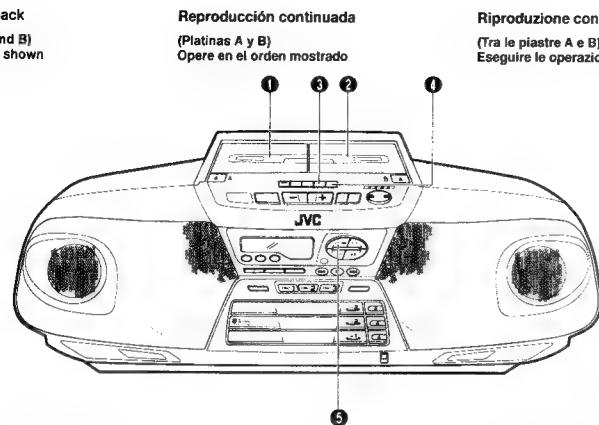
- Quando il nastro viene riprodotto col modo di autoreverse impostato su \leftrightarrow (riproduzione di un solo lato) o su \rightarrow (riproduzione del nastro si interrompe automaticamente alla fine del nastro dopo aver riprodotto un lato oppure entrambi i lati rispettivamente. Se viene scelto il modo di scorrimento in direzione inversa \leftrightarrow (riproduzione continua), la riproduzione dei due lati della cassetta continua senza fine sino a che non viene interrotta dall'utente.

Come avvolgere rapidamente i nastri

- Premere il tasto TAPE \blacktriangleleft (per impostare il modo TAPE).
- Premere il tasto \blacksquare .
- Premere il tasto \blacktriangleleft o \triangleright .

Durante la riproduzione di nastri, se si preme il tasto \blacktriangleleft o \triangleright la scansione musicale inizia.

Continuous Playback
(Between Decks A and B)
Operate in the order shown



- ① Load a cassette tape in Deck A.
- ② Load a cassette tape in Deck B.
- ③ Set the reverse mode to .
- ④ Select either Deck A or B.
- ⑤ Press the TAPE button to start continuous play.

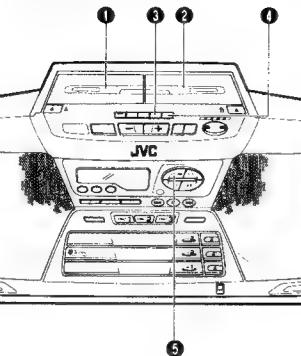
- To stop tape running, press the button. When the reverse mode is set to , the tape will stop at the end of the side being played.
- The DECK A/B button does not function unless tapes are loaded in both decks.

Music Scan

- The beginning of the current tune or the next tune can be located using the music scan function.
- ① Press the TAPE button for tape playback.
(To select the playback direction, press the TAPE button.)
- ② Press the button for music scan.

Reproducción continua
(Platinas A y B)
Operar en el orden mostrado

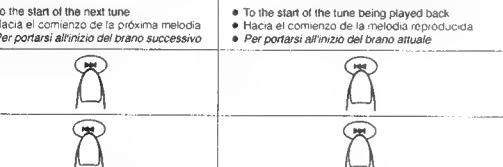
Riproduzione continua
(Tra le piastre A e B)
Eseguire le operazioni nell'ordine indicato



- ① Coloque una cinta en la platina A.
- ② Coloque una cinta en la platina B.
- ③ Coloque el modo de inversión en .
- ④ Seleccione la pista A o la B.
- ⑤ Presione el botón TAPE para iniciar la reproducción continua.
- Para parar el transporte de cinta, presione el botón . Cuando se coloca el modo de inversión de cinta en para que la misma pare al fin del lado que está siendo reproducido.
- El botón DECK A/B no funciona a menos que se hayan colocado cintas en ambas platinas.

Búsqueda de música

- Utilizando la función de búsqueda de música es posible ubicar el principio de la música actual o de la próxima.
- ① Para reproducir la cinta presione el botón TAPE .
(Para seleccionar el sentido de reproducción, presione el botón TAPE .)
- ② Para buscar una música presione el botón o .
- ① Para comenzar la reproducción de la canción deseada, presione el botón TAPE .
(Para escoger una dirección de reproducción, presione el botón TAPE .)
- ② Premere il tasto o per azionare la ricerca di brani.



(Forward () direction playback)
(Reproducción en la dirección de avance ()
(Riproduzione in direzione normale ()

(Reverse () direction playback)
(Reproducción en la dirección inversa ()
(Riproduzione in direzione inversa ()

The tape direction indicator blinks twice, repeatedly, during music scanning.
El indicador de dirección de la cinta parpadea dos veces, repetidamente, durante la búsqueda de música.
L'indicatore della direzione del nastro lampeggia due volte, ripetutamente, durante la scansione musicale.

- ③ When the specified tune is located, playback will start automatically.
- To skip two or more tunes, repeat steps ② and ③ above.

Note:

- When the tape playback direction is switched over during music scan, the function may not operate correctly. If this happens, press the or button to reinitialize music scan.

Nota:
• Cuando cambia la dirección de reproducción de la cinta durante la búsqueda de música, la función puede no operar correctamente.

Si ocurre esto, presione el botón o para reactivar la búsqueda de música.

Notes:
With the following types of tape, the Music Scan mechanism may not operate correctly. This is not a malfunction; use music scan function only with suitable tapes.

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portion during tunes.
- Tapes with short non-recorded sections.
- Tapes with high-level noise or hum between tunes.

Notas:
Con los siguientes tipos de cinta el mecanismo de búsqueda de música puede no funcionar correctamente. Esto no es una falla; utilice la función de búsqueda de música solo con las cintas adecuadas.

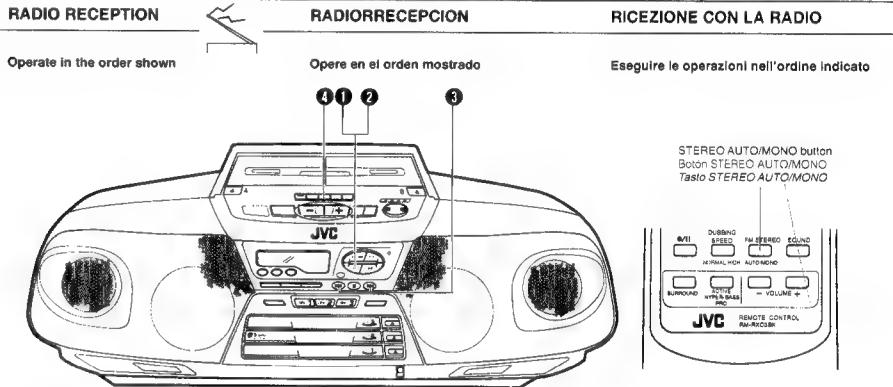
- Cintas con músicas que tienen largos pasajes pianissimo (porciones muy suaves), o porciones sin grabar en las músicas.
- Cintas con secciones cortas sin grabar.
- Cintas con alto nivel de ruido o zumbido entre músicas.

Note:
Con i seguenti tipi di cassetta, la funzione di scansione dei brani potrebbe non funzionare correttamente. Ciò tuttavia non è un guasto. La funzione può venire usata solo con nastri adatti.

- Nastri che contengono porzioni molto silenziose (ad esempio pianissimo di musica classica), o non registrate fra un brano e l'altro.
- Nastri con porzioni non registrate fra un brano e l'altro troppo brevi.
- Nastri che contengono rumore fra un brano e l'altro.

RADIO RECEPTION

Operate in the order shown



- ① Inserte una cinta en la pista A.
- ② Inserte una cinta en la pista B.
- ③ Impostare el modo autoreverse en .
- ④ Selezionare la pista A o la pista B.
- ⑤ Premere el tasto TAPE para avivare la reproducción continua.

- Per fermare il nastro, premere il tasto . Quando il modo autoreverse è impostato su , il nastro si ferma alla fine del lato in corso di riproduzione.
- Il tasto DECK A/B non funziona se una cassetta non è stata inserita in entrambe le piastre.

STEREO AUTO/MONO button (using the remote control unit)

Botón STEREO AUTO/MONO (utilizando la unidad de control remoto)

Auto mode:
Colóquelo en esta posición cuando escucha o graba una radiodifusión estéreo de FM. El indicador STEREO se enciende cuando se recibe una radiodifusión estéreo de FM.

Mono mode:
Colóquelo en esta posición cuando la recepción estéreo de FM tenga ruido.

When another station is tuned to in the MONO mode, the unit automatically enters Auto mode.

Seek tuning

Presione el botón o durante un segundo o más. La unidad ingresa en el modo de búsqueda de sintonía, sintonizando automáticamente la estación más próxima, escuchándose la radiodifusión.

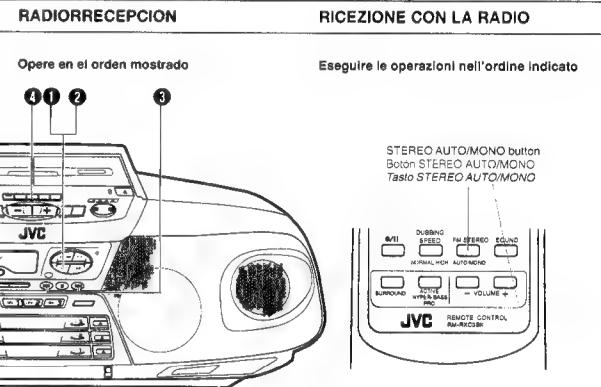
Manual tuning

Cada vez que se presiona el botón o , la unidad pasa a través de la banda de frecuencia actual. La sintonización es efectuada en pasos de 50 kHz para FM, de 9 kHz para AM.

Press to move to lower frequencies.
Presione para disminuir la frecuencia.
Premere per abbassare la frequenza.

RADIORRECEPCION

Operar en el orden mostrado



- ④ Presione el botón TUNER.
- Se conecta la alimentación y aparece en el visor una banda y una frecuencia de radio.
- ⑤ Seleccionar la banda.
- ⑥ Tuner to the required station.
- ⑦ Ajuste.

Tasto STEREO AUTO/MONO (utilizando l'unità di telecomando)

Modo auto:
Impostare questa posizione quando si ascolta o si registra una trasmissione FM stereo. L'indicatore del modo STEREO si accende quando la trasmissione ricevuta è in stereo.

Modo mono:
Impostare questa posizione quando la ricezione FM è disturbata.

Quando un'altra stazione viene sintonizzata nel modo MONO, l'unità entra automaticamente nel modo automatico.

Búsqueda de sintonía

Presione el botón o por un segundo o más. La unidad entra en el modo de búsqueda de sintonía, sintonizando automáticamente la estación más cercana, escuchándose la radiodifusión.

Sintonización manual

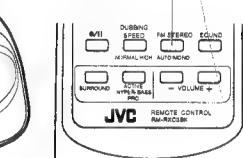
Cada vez que se presiona el botón o , la unidad pasa a través de la banda de frecuencia actual. La sintonización es efectuada en pasos de 50 kHz para FM, de 9 kHz para AM.

Press to move to higher frequencies.
Presione para aumentar la frecuencia.
Premere per aumentare la frequenza.

RICEZIONE CON LA RADIO

Eseguire le operazioni nell'ordine indicato

STEREO AUTO/MONO button
Botón STEREO AUTO/MONO
Tasto STEREO AUTO/MONO



- ① Premere il tasto TUNER.
- Il sistema si accende e sul display viene visualizzata la banda e la frequenza.
- ② Scegliere la banda.
- ③ Sintonizzare la stazione desiderata.
- ④ Regolare.

Tasto STEREO AUTO/MONO
(utilizzando l'unità di telecomando)

Modo auto:
Impostare questa posizione quando si ascolta o si registra una trasmissione FM stereo. L'indicatore del modo STEREO si accende quando la trasmissione ricevuta è in stereo.

Modo mono:
Impostare questa posizione quando la ricezione FM è disturbata.

Quando un'altra stazione viene sintonizzata nel modo MONO, l'unità entra automaticamente nel modo automatico.

Búsqueda de sintonía

Premere el botón o por un segundo o más. La unidad entra en el modo de búsqueda de sintonía, sintonizando automáticamente la estación más cercana, escuchándose la radiodifusión.

Sintonizzazione manuale

Ogni volta che il tasto o viene premuto, l'unità scorre attraverso la banda di frequenza corrente. La sintonizzazione viene effettuata in passi da 50kHz in FM e da 9kHz in AM.

Notes:

- When seek tuning to the required station is not possible because the broadcast signal is too weak, press the \blacktriangleleft or \triangleright button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER button is pressed, the same station will be tuned to.

Auto preset tuning

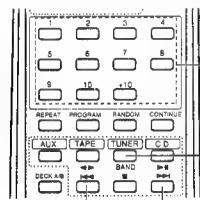
This function scans the current band, detecting frequencies used by broadcast signals, and stores the first 15 frequencies in memory automatically.

- Press the AUTO PRESET button for more than 2 seconds. The frequencies of stations broadcasting signals can be stored in memory automatically in the order of increasing frequency. (15 stations in each band.)

Presetting stations (using the remote control unit)

15 stations in each band can be preset as follows:

- Example: (Presetting an FM station broadcasting on 103.5 MHz to preset button "15")



- Press the TUNER/BAND button.
- Select the FM band using the TUNER/BAND button.
- Tune to the required station.
- Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been stored.)

- Repeat the above procedure for each of the other stations, using a different preset button each time.

- Repeat the above procedure for the other band.

To change preset stations

Perform step ④ above after tuning to the required station.

Notes:

- The previous stored station is erased when a new station is stored, because the new station's frequency replaces the previous frequency in memory.
- When listening to an AM broadcast, noise may be heard if the remote control unit is used.

Notas:

- Cuando la búsqueda de sintonía de la estación deseada no es posible debido a que la señal de radiodifusión es demasiado débil, presione el botón \blacktriangleleft o \triangleright para efectuar la sintonización manual.
- Cuando se coloca la alimentación en STANDBY, o selecciona otro modo (TAPE o CD), la última frecuencia sintonizada es almacenada en memoria. Cuando conecta la alimentación otra vez y presiona el botón TUNER, la unidad sintoniza la misma estación.

Presintonización automática

Esta función busca la banda actual, detectando las frecuencias usadas para señales de radiodifusión y almacena automáticamente en memoria las primeras 15 frecuencias.

- Presione durante más de 2 segundos el botón AUTO PRESET. Las frecuencias de las estaciones que están radiodifundiendo pueden ser automáticamente almacenadas en memoria en orden de frecuencias crecientes. (15 estaciones en cada banda).

Presintonización de estaciones (utilizando la unidad de control remoto)

Es posible presintonizar 15 estaciones en cada banda de la siguiente forma:

- Ejemplo: (Para presintonizar la radioemisora de una estación de FM en 103.5 MHz en el botón "15" de presintonización)

Note:

- Quando la sintonizzazione con ricerca della stazione desiderata non è possibile a causa della debolezza del segnale, premere momentaneamente il tasto \blacktriangleleft o \triangleright per eseguire la sintonizzazione manuale.
- Cuando l'alimentazione è impostata su STANDBY oppure quando viene selezionato un altro modo (TAPE o CD), l'ultima frequenza sintonizzata viene memorizzata. Questa stessa frequenza viene poi sintonizzata quando l'alimentazione viene riattivata ed il tasto TUNER viene premuto.

Sintonizzazione con preselezione automatica

Questa funzione esegue la ricerca nella banda utilizata elevando le frequenze utilizzate per le trasmissioni e quindi memorizza automaticamente le prime 15 frequenze.

- Premere il tasto AUTO PRESET per più di 2 secondi. Le frequenze dei segnali trasmessi dalle stazioni possono essere memorizzate automaticamente in ordine crescente. (15 stazioni per ciascuna banda).

Preselezione delle stazioni (utilizzando l'unità di telecomando)

15 stazioni per ciascuna banda possono essere preselezionate nel modo seguente:

- Esempio: (Per preselezionare una stazione FM che trasmesso sul 103.5 MHz nel tasto di preselezione numero "15")

- All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, store the stations again.

Preset tuning

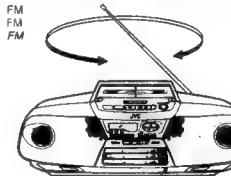
- The stations must be preset before this operation can be performed.

(Using the main unit)

- Press the TUNER button.
- Select the band using the TUNER button.
- Press the PRESET TUNING button to select the required preset station.

(Using the remote control unit)

- Press the TUNER/BAND button.
- Select the band using the TUNER/BAND button.
- Press the required preset station buttons (No. 1 - No. 10 and +10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas

Note:
The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM reception.

- Todas las estaciones presintonizadas se borrarán cuando se desconecte el cordón de alimentación u ocurra un corte de energía de más de 24 horas. En tales casos almacene las estaciones otra vez.

Presintonización

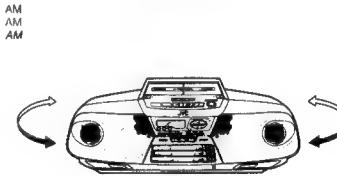
- Las estaciones deben ser presintonizadas antes de que se pueda ejecutar esta operación.

(Utilizando la unidad principal)

- Presione el botón TUNER.
- Seleccione la banda utilizando el botón TUNER.
- Presione el botón PRESET TUNING para seleccionar la estación presintonizada deseada.

(Utilizando la unidad de control remoto)

- Presione el botón TUNER/BAND.
- Seleccione la banda utilizando el botón TUNER/BAND.
- Presione los botones (No. 1 - No. 10 y +10) de la estación presintonizada deseada.
- En el visor aparecen el número de estación presintonizada y la frecuencia correspondiente al botón presionado.

Utilización de antenas

Note:
El núcleo incorporado de la antena de ferrita puede captar interferencia de receptores de televisión de la vecindad y disturbando la recepción de AM.

- Tutte le stazioni preselezionate vengono cancellate se il cavo di alimentazione viene cancellato oppure se si verifica un'interruzione di corrente per più di 24 ore. In tali casi eseguire nuovamente la memorizzazione delle stazioni.

Sintonizzazione stazioni preselezionate

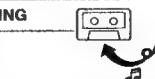
- Le stazioni devono essere preselezionate prima di poter eseguire questa operazione.

(Usa dell'unità principale)

- Premere il tasto TUNER.
- Selezionare la banda utilizzando il tasto TUNER.
- Premere il tasto PRESET TUNING per scegliere la stazione preselezionata desiderata.

(Utilizzando l'unità di telecomando)

- Premere il tasto TUNER/BAND.
- Selezionare la banda utilizzando il tasto TUNER/BAND.
- Premere il tasto della stazione preselezionata desiderata (No. 1 - No. 10, +10).
- Il numero della stazione preselezionata e la frequenza corrispondenti al tasto premuto vengono visualizzati.

Uso delle antenne**RECORDING**

- During recording, the ALC (Automatic Level Control) circuit automatically optimizes the recording level, so manual recording level adjustment is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

GRABACION

Note:
• Quando si memorizza una nuova stazione, la stazione memorizzata in precedenza viene cancellata in quanto la frequenza della nuova stazione sostituisce quella memorizzata in precedenza.

- In this system, the CD player starts play when the cassette deck enters the recording mode.

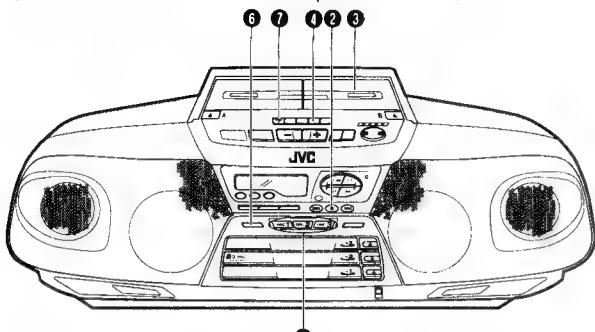
REGISTRAZIONE

- Durante la grabación, el circuito ALC (control automático del nivel) optimiza automáticamente el nivel de grabación, haciendo innecesario el ajuste manual del nivel de grabación.
- Verifique que la lengüeta de seguridad del cassette de cinta no esté rota.
- Durante la grabación, el circuito ALC (control automático del nivel) optimiza automáticamente el nivel de grabación, haciendo innecesario el ajuste manual del nivel de grabación.
- Controllare che la lingua di protezione della registrazione della cassetta non sia stata rimossa.

Registrazione sincronizzata col lettore CD

- In questo modo di funzionamento, il lettore CD inizia a riprodurre quando il registratore entra nel modo di registrazione.

Operate in the order shown



- ① Press the CD CONTROL button corresponding to the CD to be recorded.
- ② Press the ■ button to set stop mode.
- ③ Load a cassette with side A facing up in Deck B. (Wind past the tape leader before starting recording.)
- ④ Select the required reverse mode (↔ or ↔).
- When programmed play is required, program the required tracks using the remote control. (See page 21.)
 - Select tracks with a total playing time which does not exceed the tape length (refer to the liner notes).
- When recording a CD in repeat play mode, set as required.
- ⑤ Press the ONE TOUCH REC button; synchronized recording will start. (The recording indicator lights up.)
- Recording starts in the forward direction and CD play starts automatically.
- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- When the CD player stops, the tape deck stops automatically.
- To stop recording in the middle, press the ■ button.
- Before CD syncro recording of CD continuous play, press the CONTINUE button. (See page 18.)

Notes:

- During CD syncro recording, the ▶ II and (◀◀, ▶▶) buttons do not function.
- When CD syncro recording is performed using more than two CDs, there will be a little blank space while the CDs change.

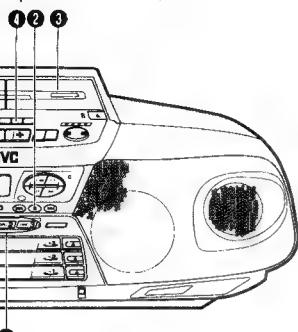
When non-recorded section between tunes is not required...

- ① Press the CD ▶ II button twice. The CD player enters the pause mode.
- ② Press the ONE TOUCH REC button to start recording.

Note:

- Depending on the CD used, non-recorded sections of different lengths may be left between tunes.

Operate en el orden mostrado



- ① Presione el botón CD CONTROL correspondiente al CD que va a grabar.
- ② Presione el botón ■ para activar el modo de parada.
- Coloque un cassette en la platina B con la cara A apuntando hacia arriba. (Antes de iniciar la grabación, rebobine la cinta hasta el comienzo de la porción grabable).
- ③ Seleccione el modo autoreverse deseado (↔ o ↔).
- ④ Cuando desea la reproducción programada, programe las pistas deseadas utilizando el controlador / remoto. (Consultar a propósito pag. 21.)
- Seleccione las pistas con un tiempo total de reproducción que no excede la longitud de la cinta (refiérase a las notas en la envoltura).
- ⑤ Cuando grabe un CD en el modo de reproducción repetida, ajuste como sea necesario.
- ⑥ Al presionar el botón ONE TOUCH REC, se inicia la grabación sincronizada. (Se enciende la luz indicadora de grabación).
- La grabación se inicia hacia adelante y se inicia automáticamente la reproducción del CD.
- En la cinta quedan automáticamente sin grabar secciones de 4 segundos aprox.
- Cuando el reproductor de CD para la platina de cinta para automáticamente.
- Para detener la grabación en mitad de la misma, presione el botón ■.
- Antes de la grabación sincronizada de CD con reproducción continuada de CD, presione el botón CONTINUE. (Ver página 18.)

Nota:

- Durante la grabación sincronizada de CD, los botones ▶ II y (◀◀, ▶▶) no funcionan.
- Cuando se efectúa la grabación sincronizada de CD utilizando más de dos CD, habrá un pequeño espacio sin grabar mientras la unidad cambia los CD.

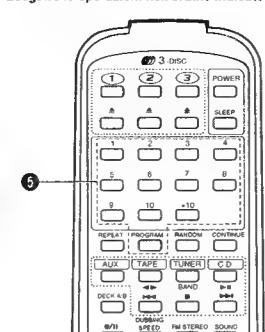
Cuando no deseas una sección sin grabar entre músicas ...

- ① Presione dos veces el botón CD ▶ II. El reproductor de CD ingresa en el modo de pausa.
- ② Presione el botón ONE TOUCH REC para iniciar la grabación.

Nota:

- A secuencia del CD utilizado, degli spazi non registrati di lunghezza diversa possono essere lasciati tra i brani.
- Dependiendo del CD utilizado es posible dejar entre músicas secciones sin grabar de diferentes longitudes.

Eseguire le operazioni nell'ordine indicato



- ① Premere il tasto CD CONTROL corrispondente al CD da registrare.
- ② Premere il tasto ■ per impostare il modo di arresto.
- Inserire una cassetta col lato A in alto nella piastra B. (Avanzare oltre la parte guida del nastro prima di iniziare la registrazione).
- ③ Selezionare il modo autoreverse desiderato (↔ o ↔).
- ④ Per la riproduzione programmata, programmare i brani richiesti col telecomando. (Consultare a proposito pag. 21.)
- La durata complessiva dei brani scelti non deve superare quella del nastro. (Consultare la copertina del CD).
- ⑤ Per registrare un CD nel modo di ripetizione della riproduzione seguire queste istruzioni.
- ⑥ Premere il tasto ONE TOUCH REC; la registrazione sincronizzata inizia. (L'indicazione di registrazione si illumina).
- La registrazione inizia nella direzione in avanti e la riproduzione del CD inizia automaticamente.
- Degli spazi non registrati da circa 4 secondi vengono creati automaticamente tra i brani.
- Quando il lettore CD si ferma, anche il registratore a cassette si ferma automaticamente.
- Per interrompere la registrazione, premere il tasto ■.
- Per registrare con la registrazione sincronizzata più CD riprodotti di seguito, premere il tasto CONTINUE. (Consultare a proposito pag. 18.)

Note:

- Durante la registrazione sincronizzata di CD, i tasti ▶ II e (◀◀, ▶▶) non funzionano.
- Quando la registrazione sincronizzata di CD viene eseguita utilizzando più di due CD, vi sarà un piccolo spazio non registrato durante il cambio del CD.

Cuando uno spazio non registrato tra i brani è necessario ...

- ① Premere due volte il tasto CD ▶ II. Il lettore CD entra nel modo di pausa.
- ② Premere il tasto ONE TOUCH REC per avviare la registrazione.

Nota:

- A secuencia del CD utilizado, degli spazi non registrati di lunghezza diversa possono essere lasciati tra i brani.

CD complete recording function (Synchro recording mode only)

If the tape is reversed while a CD is being played, recording will be done on the reverse side of the tape as follows:

- When less than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the previous track.
- When more than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the current track.

To record an entire disc in the track order of the CD

After the operations in steps ① ② above, press the ▶ II button after the ●/II button has been pressed twice.

How to fast-wind tapes

1. Press the TAPE ◀◀ button (to set TAPE mode).
2. Press the ■ button.
3. Press the ◀◀ or ▶▶ button.

During tape playback, when the ◀◀ or ▶▶ button is pressed, music scan starts.

When tape recording is completed in the reverse (◀) direction

After the tape is ejected, the tape deck is automatically set to the forward (▶) direction, making it easier to record on side A the next time.

Recording from the radio or an external source connected to the AUX IN terminals

Operate in the order shown

Función de grabación del CD completo (modo de grabación sincronizada exclusivamente)

Si la cinta es invertida mientras el CD está siendo reproducido, la grabación se efectuará en el lado opuesto de la cinta, de la siguiente manera:

- Cuando se hayan grabado menos de 10 segundos de la última música en el lado frontal de la cinta, la grabación del otro lado se iniciará desde el principio de la pista anterior.
- Cuando se hayan grabado más de 10 segundos de la última música en el lado frontal de la cinta, la grabación del otro lado se iniciará desde el principio de la pista actual.

Para grabar todo un CD en el orden de las pistas del mismo

Después de efectuar las operaciones de los pasos ① y ②, arriba, primero presione dos veces el botón ●/II y después el botón ▶ II.

Método para bobinado rápido de cintas

1. Presione el botón TAPE ◀◀ para activar el modo TAPE.
2. Presione el botón ■.
3. Presione el botón ◀◀ o ▶▶.

La búsqueda la música se inicia cuando se presiona el botón ◀◀ o ▶▶ durante la reproducción de cinta.

Cuando termina la grabación de la cinta hacia atrás (◀)

Después de que la cinta es eyectada, se activa automáticamente el movimiento hacia adelante (▶) de la platina de cinta, facilitando la grabación del lado A la próxima vez.

Grabación desde la radio o de una fuente externa conectada a los terminales AUX IN

Operate en el orden mostrado



Eseguire le operazioni nell'ordine indicato

Funzione di registrazione completa del CD (solo nel modo di registrazione sincronizzata)

Se la direzione del nastro viene invertita durante la riproduzione del CD, la registrazione viene eseguita sul lato opposto nel modo seguente:

- Se sono stati registrati meno di 10 secondi dell'ultimo brano sul lato anteriore del brano, la registrazione sul lato opposto del nastro inizierà dall'inizio del brano precedente.

- Se sono stati registrati più di 10 secondi dell'ultimo brano sul lato anteriore del brano, la registrazione sul lato opposto del nastro inizierà dall'inizio del brano in corso di riproduzione.

Per registrare un Intero CD con i brani nell'ordine originale

Dopo le operazioni delle fasi ① ② in alto, premere il tasto ▶ II dopo aver premuto due volte il tasto ●/II.

Come avvolgere rapidamente i nastri

1. Premere il tasto TAPE ◀◀ (per impostare il modo TAPE).
2. Premere il tasto ■.
3. Premere il tasto ◀◀ o ▶▶.

Durante la riproduzione di nastri, se si preme il tasto ◀◀ o ▶▶ la scansione musicale inizia.

Quando la registrazione di un nastro è terminata nella direzione inversa (◀)

Dopo che il nastro è stato espulso, il registratore viene impostato automaticamente nella direzione in avanti (▶) per facilitare la registrazione successiva sul lato A.

Registrazione della radio o del componente collegato ai terminali AUX IN

Eseguire le operazioni nell'ordine indicato

Operare en el orden mostrado



Eseguire le operazioni nell'ordine indicato

● Inserire una cassetta nella piastra B col lato A in alto.

(Avanzare oltre la parte guida del nastro prima di iniziare la registrazione).

● Selezionare la fonte da registrare.

TUNER: Premere il tasto TUNER. Sintonizzare la stazione desiderata.

AUX: Premere el botón AUX.

● Selezionare il modo autoreverse desiderato.

● Premere el tasto ●/II (modo de pausa della registrazione).

● L'indicatore REC lampeggia.

● El selector de función queda bloqueado y no se puede cambiar su posición.

● Premere el botón ●/II para iniciar la grabación.

- Instead of following the operations ① and ③ described above, recording can be performed by pressing the ONE TOUCH REC button. The recording starts from the beginning of side A.
- To stop recording temporarily, press the button. To resume recording, press the button again.



Normal and high-speed dubbing from Deck A to Deck B can be performed.

Operate in the order shown

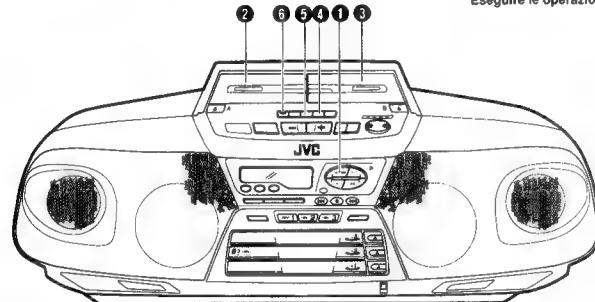
- En lugar de las siguientes operaciones ① y ③, descritas arriba, la grabación puede ser efectuada presionando el botón ONE TOUCH REC. La grabación se inicia desde el principio de la cara A.
- Para parar la grabación temporalmente, presione el botón . Para continuar la grabación, presione el botón otra vez.

COPIA DE CINTA (COPIA CON INICIO SÍNCRONIZADO)

Es posible efectuar la copia normal y de alta velocidad de la placa A a la placa B.

Operar en el orden mostrado

2 6 5 4 1 3



- Set to the TAPE mode.
- Load a pre-recorded cassette in Deck A.
- Load a cassette for recording in Deck B.
- Select the desired reverse mode.
- Set to NORMAL SPEED or HIGH SPEED.
- When set to NORMAL SPEED, there is no indication in the display window.
- Press the ONE TOUCH REC button. (Synchronized dubbing will start.)

How to stop dubbing in progress

Press the button to stop Deck A and Deck B, releasing the dubbing mode. Also, when Deck A is stopped, Deck B stops automatically.

Note:

Televisions placed close to this unit may cause interference on the recorded signal when this unit is used in the high-speed dubbing mode. If this happens, either turn off the television or use the normal-speed dubbing mode.

- Active el modo TAPE.
- Coloque un cassette grabado en la placa A.
- Coloque el cassette para grabar en la placa B.
- Seleccione el cassette a grabar en la placa B.
- Active NORMAL SPEED o HIGH SPEED.
- Cuando se lo coloca en NORMAL SPEED, en la ventanilla de indicación no aparece ninguna indicación.
- Presione el botón ONE TOUCH REC. (Se iniciará la copia sincronizada).

- Método para detener la copia**
Presione el botón para detener la placa A y la B, desactivando el modo de copia. Si detiene la placa A, la placa B para automáticamente.

- Nota:**
Los televisores colocados cerca de esta unidad pueden causar interferencia en la señal grabada cuando se utiliza esta unidad en el modo de copia de alta velocidad. Si ocurre esto, desconecte la alimentación del televisor o utilice el modo de copia con velocidad normal.

- Invece di eseguire le operazioni sopradescritte ① e ③, la registrazione può essere eseguita premendo il tasto ONE TOUCH REC. La registrazione comincia dall'inizio del lato A.
- Per interrompere temporaneamente la registrazione, premere il tasto . Premere nuovamente il tasto per riprendere la registrazione.

DUPLICAZIONE (DUPLICAZIONE SINCRONIZZATA)

E' possibile eseguire la duplicazione a velocità normale o a alta velocità dalla piastra A a quella B.

Eseguire le operazioni nell'ordine indicato

2 6 5 4 1 3

Erasing

A recorded tape can be erased by recording new material over the previous material.

To erase a tape without making a new recording....

Select the playback direction with the TAPE button, press the button then the button twice to record.

It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.

Para borrar una cinta sin efectuar una nueva grabación...

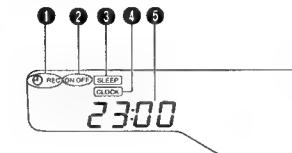
Selección la dirección de reproducción con el botón TAPE presione el botón y luego presione el botón dos veces para grabar.

Puede ser ilegal el grabar o reproducir material con derechos de autor sin el consentimiento del dueño de los mismos.

Notare che la registrazione o la riproduzione di materiali protetti da diritti d'autore senza il permesso del proprietario di tali diritti potrebbe essere contro la legge.

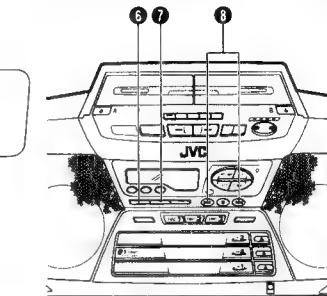
CLOCK ADJUSTMENT

Names of parts in the clock/timer section, and their functions:



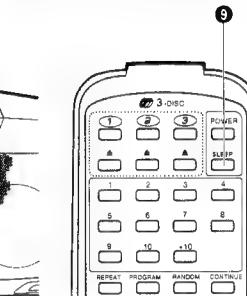
AJUSTE DEL RELOJ

Nombre de las partes de la sección del reloj/temporizador y sus funciones:



REGOLAZIONE OROLOGIO

Nome e funzioni delle varie parti dell'orologio e del timer:

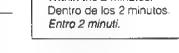
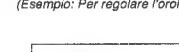


- Indicator del modo de temporizador
- Indicator de activación/desactivación (ON/OFF) del temporizador
- Indicador SLEEP
- Indicador CLOCK
- Indicador de hora
- Botón del temporizador (TIMER)
- Botón del reloj (CLOCK)
- Botones
- Botón del temporizador de desconexión (SLEEP)

- Indicatore modo timer
- Indicatore timer (ON/OFF)
- Indicatore SLEEP
- Indicatore orologio (CLOCK)
- Display orario
- Tasto timer (TIMER)
- Tasto orologio (CLOCK)
- Tasti
- Tasto spegnimento automatico (SLEEP)

Setting the current time (when this unit is used for the first time)

(Example: To set the clock to 13:15.)



- Coloque el botón POWER en ON.
- Presione el botón CLOCK durante 2 seg. o más; "0:00" parpadeará en el visor.
- Set to 13:15 by pressing the .

- Ajuste a la 13:15 presionando los botones . (Si mantiene el botón presionado, la indicación de los minutos/hora cambia continuamente.)
- Presione el botón CLOCK; la hora se iluminará en el visor.

- To set to the nearest second...
Press the CLOCK button when you hear the time signal from a TV or radio.

- Para fijar los segundos en forma más exacta... Presione el botón CLOCK al escuchar la señal horaria de la televisión o la radio.

To confirm the current time

- Press the CLOCK button. When the button is pressed again, the display shows the previously engaged mode.
- Para confirmar la hora actual
Presione el botón CLOCK. Al presionarlo otra vez la indicación muestra el modo que estaba activado antes.

Confirmación de la hora actual

- Presione el botón CLOCK. El orologio si ilumina sul display.
- Per controllare l'orario
Premere il tasto CLOCK. Quando il tasto viene premuto di nuovo, il display visualizza il modo impostato in precedenza.

Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- When the power cord is plugged in again after being disconnected for more than 5 minutes, or power is restored after a power failure lasting more than 5 minutes, "CLOCK" will blink in the display. Set the current time again.

Notes:

- Antes de efectuar la grabación o reproducción por temporizador, es necesario ajustar la hora actual.
- Cuando se enchufa otra vez el cordón de alimentación después de haberlo desenchufado durante más de 5 minutos, o cuando vuelve la energía eléctrica después de un corte de más de 5 minutos de duración, "CLOCK" parpadeará en la indicación. Ajuste otra vez la hora.

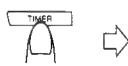
Note:

- Prima di eseguire la registrazione o la riproduzione col timer è necessario impostare l'ora esatta.
- Quando il cavo di alimentazione viene ricollegato dopo essere stato scollegato per più di 5 minuti oppure quando il corrente viene ripristinata dopo un'interruzione di più di 5 minuti, l'indicazione "CLOCK" lampeggia sul display. Impostare nuovamente l'ora esatta.

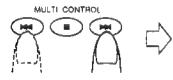
TIMER OPERATIONS

Setting the timer

- The current time must be set before the timer can be used.
- Press the TIMER button.



① Set the start time.
(Example: To set the timer to 12:15.)



OPERACIONES POR TEMPORIZADOR

Ajuste del temporizador

- Antes de utilizar el temporizador es necesario ajustar la hora actual.
- Presione el botón TIMER.



② Ajuste el tiempo de inicio.
(Ejemplo: Para ajustar el temporizador a las 12:15.)



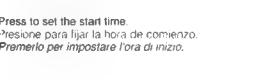
FUNZIONAMENTO COL TIMER

Impostazione del timer

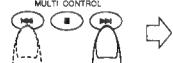
- Prima di poter utilizzare il timer deve essere impostata l'ora esatta.
- Premere il tasto TIMER.



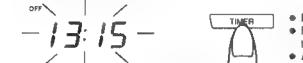
③ Impostare l'orario di avvio.
(Esempio: Per impostare il timer sulle 12:15.)



④ Set the stop time.
(Example: To set the timer stop time to 13:15.)



⑤ Ajuste la hora de parada.
(Ejemplo: Para ajustar la hora de parada del temporizador a las 13:15.)



⑥ Select the TIMER mode.
The selected timer mode is shown in the display.



⑦ Seleccione el modo TIMER.
El modo de temporizador seleccionado aparece en la indicación.



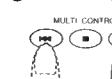
When the **▶▶** button is pressed to select the timer mode, the mode changes from TUNER (timer reception of a broadcast), to TUNER/REC (timer recording of a broadcast), to CD (timer play of a CD), to TAPE (timer playback of a tape), in this order.



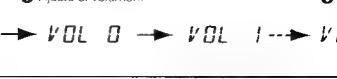
Si presiona el botón **▶▶** para seleccionar el modo de temporizador, el modo cambia de TUNER (recepción de radiofusión por temporizador), a TUNER/REC (grabación de una radiofusión por temporizador), a CD (reproducción de CD por temporizador), a TAPE (reproducción de cinta por temporizador), en este orden.

Quando il tasto **▶▶** viene premuto per selezionare il modo del timer, il modo cambia da TUNER (recezione di una trasmissione col timer), a TUNER/REC (registrazione di una trasmissione col timer), a CD (riproduzione di un CD col timer), a TAPE (riproduzione di un nastro col timer), in questo ordine.

⑤ Set the volume.



⑥ Ajuste el volumen.



⑦ Regolare del volume

This shows when volume level 1 is selected.
Esto aparece cuando se selecciona el nivel de volumen 1.
Indica se il livello di volume 1 è stato scelto.

• The unit enters the previously engaged mode and timer setting has been completed. (The (O) indicator lights.)
• La unidad ingresa en el modo previamente activado y el ajuste del temporizador queda completado. (Se enciende el indicador (O).)
• L'unità entra nel modo precedentemente attivato e l'impostazione del timer è così terminata. (L'indicatore (O) si accende.)

• Si se ajusta el volumen en "VOL --" (no se especifica el nivel del volumen), el volumen de la reproducción por temporizador permanece al nivel utilizado antes de ajustar el temporizador.

• To confirm the timer setting
1. Each time the TIMER button is pressed, the timer setting can be confirmed.
2. When the previously engaged mode is displayed, timer setting has been completed.

• Comprobación del ajuste del temporizador
1. El ajuste del temporizador puede ser confirmado al presionar el botón TIMER.
2. Cuando se activa el modo anterior, el ajuste del temporizador queda completado.

• Per controllare l'impostazione del timer
1. Il programma del timer può venire controllato ad ogni pressione del tasto TIMER.
2. Quando il modo precedentemente attivato viene visualizzato, l'impostazione del timer è terminata.

• Nota:
• Cuando el timer viene establecido en modo incorrecto o no se selecciona el modo correcto, ejecute el "Ajuste del temporizador", desde el principio.

Timer recording of broadcast

- The current time must be set before the timer can be used.
- Make sure that the safety tabs of the cassette have not been broken off.

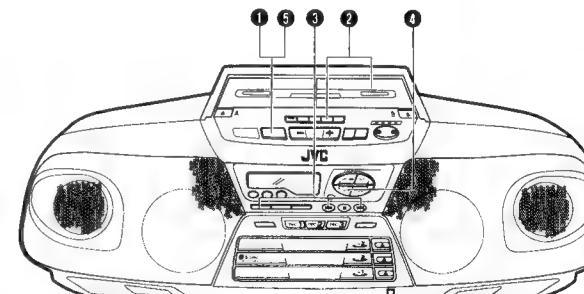
Grabación por temporizador de una radiofusión

- Antes de utilizar el temporizador es necesario ajustar la hora actual.
- Asegúrese de que las lengüetas de seguridad del cassette no estén rotas.

Operations

Operaciones

Operazioni



① Set the POWER button to ON.

② Load a cassette in Deck B.
● Insert the cassette with the side to be recorded facing up.

● Select the required reverse mode (**↔** or **↔**).

③ Set the timer. (Refer to "Setting the timer" on page 33.)
● Set the timer about a minute before the broadcast to be recorded is scheduled to start.

④ Tune to the station to be recorded. (Refer to page 26.)
● Set the POWER button to STANDBY.

① Coloque el botón POWER en ON.

② Coloque un cassette en la placa B.
● Coloque el cassette con la cara a ser grabada apuntando hacia arriba.

● Seleccione el modo de inversión deseado (**↔** o **↔**).

③ Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 33.)
● Ajuste el temporizador a un minuto aproximadamente antes del comienzo programado de la radiofusión a ser grabada.

④ Sintonice la estación a ser grabada. (Refiérase a la página 26.)
● Coloque el botón POWER en STANDBY.

① Portare l'interruttore POWER su ON.

② Inserire una cassetta nella piastra B.
● Inserire la cassetta col lato da registrare in alto.

● Selezionare il modo autoreverse desiderato (**↔** o **↔**).

③ Impostare il timer. (Vedi "Impostazione del timer" a pag. 33.)
● Impostare il timer su circa un minuto prima dell'inizio della trasmissione che si desidera registrare.

④ Sintonizzare la stazione che si desidera registrare. (Vedi in proposito pag. 26.)
● Portare l'interruttore POWER su STANDBY.

- Timer recording will start at timer start time and the power will be switched off at timer stop time. (The timer mode is then released.)

To cancel timer operation
Press the TIMER button so that the timer mode indicator (O) goes out.

If you do this, timer recording will not start at the timer start time.

Notes:

Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

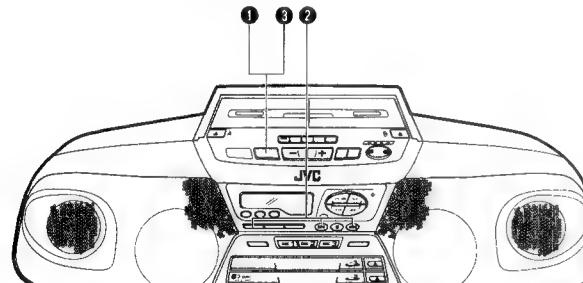
• After setting the timer start and stop times, check that the tuner is tuned to the required frequency.

• When the power cord is disconnected for more than 5 minutes or there is a power failure lasting more than 5 minutes, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations



- ① Set the POWER button to ON.
- ② Set the timer. (Refer to "Setting the timer" on page 33.)

Reproducción por temporizador

- La reproducción por temporizador de cintas, radiodifusión, y CD es posible.

Operaciones

- ① Coloque el botón POWER en ON.
- ② Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 33.)
- ③ Impostare il tasto POWER su ON.
- ④ Imposta il timer. (Vedi "Impostazione del timer" a pag. 33.)

Source sound Fuente de sonido Fonte sonora	Timer mode Modo de temporizador Modo di funzionamento	Operations Operaciones Operazioni
CD play Reproducción de CD Riproduzione CD	CD CD CD	Load a disc. Coloque un disco. Inserire un CD.
Tape playback Reproducción de una cinta Riproduzione nastri	TAPE TAPE TAPE	Load a cassette tape. Coloque una cinta de cassette. Caricare una cassetta.
Broadcast Radiodifusión Trasmissione radio	TUNER TUNER TUNER	Tune to the required station. Sintonice la estación deseada. Mettere in sintonia la stazione desiderata.

- ⑤ Set the POWER button to STANDBY.

- ⑥ Coloque el botón POWER en STANDBY.

- ⑦ Portare l'interruttore POWER su STANDBY.

- La grabación por temporizador se iniciará en la hora de activación del temporizador y la unidad desconecta la alimentación a la hora de parada del temporizador. (Luego se desactiva el modo de temporizador.)

Cancellation de la operación por temporizador
Presione el botón TIMER para apagar el indicador (O) de modo de temporizador.

Se questa operazione viene eseguita, la registrazione col timer non si avverà all'orario di avvio del timer.

Notes:

Una volta che il timer è stato impostato, gli orari di avvio e di arresto, ecc., vengono memorizzati. Quando si desidera eseguire la registrazione o la riproduzione ad un orario diverso, il timer deve essere reimpostato.

• Dopo aver impostato gli orari di avvio e di arresto del timer, controllare che il sintonizzatore sia sintonizzato sulla frequenza desiderata.

• Quando si verifica un'interruzione di corrente di più di 5 minuti oppure quando il cavo di alimentazione rimane scollegato per più di 5 minuti, l'impostazione del timer viene cancellata dalla memoria. Se ciò dovesse accadere, riequipare l'orologio ed eseguire nuovamente l'impostazione del timer.

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time. The unit remains in the same timer mode even after the power is switched off. The same timer function will repeat at the same time on the following day.

- When the timer mode is activated, the "O" indicator blinks.

- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

- To cancel timer operation
Press the TIMER button so that the timer mode indicator (O) goes out.

Notes:

• When the volume setting is set to "VOL --" (volume level is not specified), the timer playback volume is at the level used before setting the timer. (In this case, the fade-in mode does not function.)

• To stop during timer playback, press the POWER button to switch the unit off.

Sleep timer operations (using the remote control unit)

A. Use this when you want to fall asleep while listening to a tape, broadcast or CD.

- ① Set to the required source and tune (broadcast) or play back (CD or tape).
- ② Press the SLEEP button to set the sleep time.



SLEEP is shown in the display.
Se visualiza [SLEEP] en el display.
L'indicazione [SLEEP] viene visualizzata sul display.

- Sleep time settings of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 5 sec.

- The sleep timer operation will start and the power will be switched off after the specified time.

- Checking the sleep time
When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

- To cancel the sleep timer operation
Press the POWER button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

- La reproducción por temporizador se iniciará a la hora de activación del temporizador y la alimentación se desconecta a la hora de desactivación del temporizador.

La unidad permanece en el mismo modo de temporizador aun después de desconectar la alimentación. La misma función de temporización se repetirá a la misma hora el siguiente día.

• El indicador "O" parpadea cuando se activa el modo de temporizador.

• Cuando se conecta la alimentación es posible hacer que el sonido aumente gradualmente desde el volumen 0 (cero) al volumen impuesto.

Cancelación de la operación por temporizador

Presione el botón TIMER para apagar el indicador (O) de modo de temporizador.

Notes:

• Cuando se ajusta el volumen en "VOL --" (el nivel de volumen no está especificado), el volumen de reproducción col timer viene establecido como primera del ajustamiento del timer. (En este caso, el modo de dissolvenza no funciona.)

• Para parar durante la reproducción por temporizador, presione el botón POWER para desconectar la unidad

- La reproducción col timer inizia all'orario di avvio del timer mentre l'alimentazione viene disattivata all'orario di arresto.

L'unità rimane nello stesso modo del timer anche dopo che l'alimentazione viene disattivata. La stessa funzione del timer viene ripetuta alla stessa ora il giorno seguente.

• Quando il modo del timer è attivato, l'indicatore "O" lampeggia.

• Quando l'alimentazione viene iniziata, è possibile eseguire un'apertura in dissolvenza dal livello di volume 0 (zero) al livello impostato.

Per cancellare il funzionamento col timer

Presione el botón TIMER para apagar el indicador (O) de modo de temporizador.

Notes:

• Quando l'impostazione del volume è "VOL --" (el livello del volume no es está especificado), el volumen de reproducción col timer viene establecido como primera dell'impostazione del timer. (In questo caso, il modo di dissolvenza no entra non funziona.)

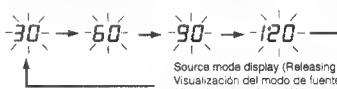
• Per interrompere il funzionamento durante la riproduzione col timer, premere l'interruttore POWER per interrompere l'alimentazione.

Operaciones para lo spegnimento automatico via timer (utilizando l'unità di telecomando)

A. Utilizzare questa funzione per addormentarsi ascoltando un nastro, una trasmissione o un CD.

① Ajuste la fuente deseada y sintonice (radiodifusión) o reproduzca (CD o cinta).

② Presione el botón SLEEP para ajustar el tiempo que va a dormir.



Source mode display (Releasng the sleep mode)
Visualizzazione del modo de fuente (Cancelación del modo de desconexión)
Visualizzazione fonte (Abbandono del modo de spegnimento a tempo)

- Los ajustes el tiempo para dormir pueden ser 30, 60, 90 o 120 minutos. Cuando usted suelta el botón SLEEP, la fuente es indicada después de que hayan transcurrido 5 segundos.

- The sleep timer operation will start and the power will be switched off after the specified time.

- Checking the sleep time
When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

- To cancel the sleep timer operation
Press the POWER button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

- Lo spegnimento automatico può essere impostato su 30, 60, 90 o 120 minuti. Quando si rilascia il tasto SLEEP, la fonte viene visualizzata 5 secondi dopo.

- Lo spegnimento automatico via timer viene eseguito dopo che il tempo impostato è trascorso.

- Controllo del tempo specificato
Cuando presiona el botón SLEEP, aparece la indicación del tiempo restante. Si lo presiona otra vez, es posible establecer un nuevo período para dormir.

Cancelación del temporizador de desconexión

Presione el botón POWER para desconectar la alimentación o presione el botón SLEEP hasta que el indicador del tiempo para dormir desaparezca.

- Per cancellare lo spegnimento automatico
Premere l'interruttore POWER per spegnere il sistema o premere il tasto SLEEP sino a che l'indicatore dell'ora di spegnimento automatico via timer scompare.

B. To fall asleep while listening to a tape, broadcast or CD and to perform timer playback the following morning

- ① Set the timer. (Refer to "Setting the timer" on page 33.)
- ② Set to the required source (broadcast, tape or CD).
- ③ Press the SLEEP button to set the sleep time.



- Any source can be selected for sleep timer operation and timer playback. For example;
- CD play for sleep timer operation and broadcast reception for timer playback.
- Tape playback for sleep timer operation and CD play for timer playback.

However, when broadcast reception is selected for both sleep timer operation and timer playback, the station you heard at night will be tuned to the following morning.

MAINTENANCE



Cleaning is important!

When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty...

- Sound quality deteriorates.
- The output sound level drops.
- Previously recorded tape is not completely erased.
- Recording is not performed satisfactorily.

Therefore, you should clean the heads, etc. after every 10 hours of use for optimal recording conditions.

Cleaning the heads, capstan and pinch roller
Open the cassette holder.
Clean the heads, pinch roller and capstan.
For effective cleaning, use a cleaning kit available from an audio store.
After cleaning, be sure that the cleaning fluid has dried completely before loading the cassette.

E. Para dormir mientras escucha una cinta, radiodifusión, o CD y para efectuar la reproducción por temporizador la mañana siguiente

- ① Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 33).
- ② Ajuste la fuente deseada (radiodifusión, cinta o CD).
- ③ Presione el botón SLEEP para ajustar la hora de desconexión del temporizador.

Source mode display (Releasing the sleep mode)
Visualización del modo de fuente (Cancelación del modo de desconexión)
Visualizzazione fonte (Abbandono del modo di spegnimento a tempo)

- Para las operaciones del temporizador de desconexión y para reproducción por temporizador es posible seleccionar cualquier fuente. Por ejemplo:
- Reproducción de CD para la operación por temporizador de desconexión y recepción de radiodifusión para la reproducción por temporizador.
- Reproducción de cinta para la operación del temporizador de desconexión y reproducción de CD para la reproducción por temporizador.

Sin embargo, cuando se selecciona la recepción de radiodifusión tanto para el temporizador de desconexión como para la reproducción por temporizador, la estación que usted escucha durante la noche será sintonizada a la mañana siguiente.

MANTENIMIENTO

!La limpieza es importante!

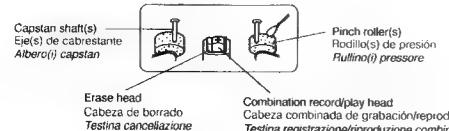
Cuando la cinta está girando, el polvo magnético y el polvo se acumulan naturalmente en las cabezas, cabrestante y rodillo de presión. Cuando están muy sucios...

- La calidad de sonido se deteriora.
- El nivel de salida de sonido se reduce.
- Las cintas grabadas no se borran completamente.
- La grabación no se realiza satisfactoriamente. Por lo tanto, usted debe limpiar las cabezas, etc. después de cada 10 horas de uso para obtener condiciones de grabación óptimas.

Limpieza de las cabezas, cabrestante y rodillo de presión

Abra el portacasette.
Limpie las cabezas, rodillo de presión y cabrestante.
Para una limpieza efectiva, utilice un conjunto de limpieza disponible en cualquier tienda de audio.

Después de la limpieza, asegúrese de que el líquido para la misma se haya secado completamente antes de colocar un cassette.



B. Per addormentarsi ascoltando una trasmissione, un nastro o un CD ed eseguire quindi la riproduzione col timer la mattina successiva

- ① Impostare il timer. (Vedi "Impostazione del timer" a pag. 33).
- ② Impostare la fonte desiderata (trasmissione radio, nastro o CD).
- ③ Premere il tasto SLEEP per impostare il tempo per lo spegnimento automatico via timer.

- Per lo spegnimento automatico e per la riproduzione col timer è possibile selezionare qualsiasi fonte. Per esempio:
- Riproduzione di un CD per lo spegnimento automatico e ricezione di una trasmissione per la riproduzione col timer.
- Riproduzione di un nastro per lo spegnimento automatico e riproduzione di un CD per la riproduzione col timer.

Quando si seleziona la ricezione di trasmissioni sia per lo spegnimento automatico che per la riproduzione col timer, comunque, la stazione sintonizzata per lo spegnimento automatico viene sintonizzata anche per la riproduzione col timer.

MANUTENZIONE

La pulizia è estremamente importante!

Cuando el nastro corre, polvere magnética y polvo se acumulan naturalmente en las cabezas, cabrestante y rodillo de presión. Cuando están muy sucios...

- La calidad del sonido se deteriora.
- El nivel de salida de sonido se reduce.
- Las cintas grabadas no se borran completamente.
- La grabación no se realiza satisfactoriamente. Por lo tanto, usted debe limpiar las cabezas, etc. después de cada 10 horas de uso para obtener condiciones de grabación óptimas.

Pulizia de testine, capstan e rullini pressori

Apre il vano della cassetta.
Pulire testine, rullini pressori e capstan.
Per pulire in modo efficace, utilizzare un corredo di pulizia disponibile in qualsiasi negozio specializzato.
Dopo la pulizia accertarsi che il liquido pulente si sia asciugato completamente prima di inserire una cassetta.

Cautions:

1. Keep magnets and metallic objects away from the head.
- If the head becomes magnetized, noise will increase and the sound will deteriorate. Demagnetize the head every 20-30 hours of use with a head eraser (available from an audio store). (When demagnetizing the head, the POWER button should be set to STANDBY).
2. Do not use anything other than alcohol for cleaning. Thinner and benzene will damage the rubber pinch roller.

Precauciones:

1. Mantenga los imanes y los objetos metálicos lejos de la cabeza.
- Si la cabeza se magnetiza, el ruido aumentará y el sonido se deteriorará. Desmagnetice la cabeza cada 20-30 horas de uso con un desmagnetizador de cabezas (disponible en cualquier tienda de audio). (Cuando desmagnetiza la cabeza, el botón POWER deberá estar colocado en STANDBY).
2. Para limpieza no utilice ningún otro producto que no sea alcohol.
- El diluyente y la bencina dañarán el rodillo de presión de goma.

Precauzioni:

1. Non avvicinare magneti o oggetti metallici alla testina.
- Se la testina si dovesse magnetizzare, i disturbi aumentano ed il suono si deteriora. Smagnetizzare la testina ogni 20-30 ore di utilizzo con un dispositivo apposito (disponibile presso un negozio specializzato). (Quando si smagnetizza la testina, il tasto POWER deve essere impostato su STANDBY).
2. Utilizzare solo alcool per la pulizia.
- Diluente o benzina danneggiano la gomma dei rullini pressori.

TROUBLESHOOTING



What appears to be trouble is not always serious. First make sure....

- Cuando hay fallas de funcionamiento.
- Desenchufe el cordón de alimentación CA del tomacorriente de CA. Luego reconéctelo y conecte la alimentación.
- No es posible conectar la alimentación.
- ¿Está el cordón de alimentación desenchufado?
- No salen sonidos de los altavoces.
- ¿Están los auriculares conectados?

(CD Player Section)

- El reproductor de CD no funciona.
- ¿Está el CD invertido?
- ¿Está el CD sucio?
- Cierta porción de un CD no es correctamente reproducida.
- ¿Está el CD rayado?
- La reproducción de CD no se realiza cuando el botón CD CONTROL está presionado.
- ¿Está el modo de programa activado?
- Cuando la operación para...
- Desconecte la alimentación OFF (espera) y conectela ON otra vez.

(Cassette Deck Section)

- Playback sound is at a very low level.
- Is the head dirty?
- The **●/II** button does not function.
- No funciona el botón **●/II**.
- ¿Se han extraído las lenguetas de seguridad del cassette?

(Tuner Section)

- Reception is noisy.
- Try adjusting the antenna.

(Timer Section)

- Timer operation does not start.
- Is the current time set correctly?
- Is the timer mode indicator (**○**) displayed?

(Remote Control)

- Remote control is impossible.
- Are the batteries in the remote control exhausted?
- Is the remote sensor section exposed to bright light (direct sunlight, etc.)?

Note:

Before making an important recording, be sure to make a test recording first to check that the deck, etc. is working correctly.

DETECCION DE PROBLEMAS

Lo que parece ser un problema no siempre es grave. Primero asegúrese....

- Se la unidad no funciona normalmente.
- "Scollegare il cavo di alimentazione alla presa di corrente, quindi ricongollarlo e riaccenderla l'unità."
- "L'alimentazione non può essere attivata."
- "Il cavo di alimentazione è scollegato?"
- "I diffusori non producono alcun suono."
- "Le cuffie sono collegate?"

Quanto sembra essere un problema spesso non è nulla di serio. Accertarsi prima di tutto...

- Se la unità non funziona normalmente.
- "Scollegare il cavo di alimentazione alla presa di corrente, quindi ricongollarlo e riaccenderla l'unità."
- "L'alimentazione non può essere attivata."
- "Il cavo di alimentazione è scollegato?"
- "I diffusori non producono alcun suono."
- "Le cuffie sono collegate?"

(Sezione lettore CD)

- Il lettore CD non riproduce.
- "Il CD è rovescio?"
- "Il CD è sporco?"
- Una parte del CD non viene riprodotta correttamente.
- "Il CD è graffiato?"
- La riproduzione di CD non ha luogo dopo che il tasto CD CONTROL viene premuto.
- "Il modo di programmazione è attivato?"
- Se l'unità si ferma.
- "Spegnerla (STANDBY) e riaccenderla."

(Sezione registratore a cassetta)

- Il livello del suono riprodotto è molto basso.
- "La testina è sporca?"
- "Le lingue di protezione della registrazione della cassetta sono state rimossse?"

(Sezione sintonizzatore)

- La ricezione è disturbata.
- "Provare ad orientare l'antenna."

(Sezione timer)

- Il funzionamento col timer non si avvia.
- "L'orario corrente è impostato in modo corretto?"
- "Il modo del timer (○) viene visualizzato?"

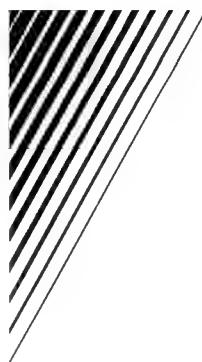
(Telecomando)

- Il funzionamento col telecomando è impossibile.
- "Le sue batterie sono scariche?"
- "Il sensore di telecomando è colpito da luce (solare o artificiale) intensa?"

Nota:

Prima di eizzare registrazioni importanti, accertarsi di eseguire una registrazione di prova per essere certi che il funzionamento del registratore, ecc., sia corretto.

SPECIFICATIONS	ESPECIFICACIONES	DATI TECNICI
CD player section		
Type : Compact disc player	Tipo : Reproductor de discos compactos	
Signal detection system : Non-contact optical pickup	Sistema de detección de señal : Capto óptico sin contacto	
Number of channels : 2 canales	Número de canales : 2 canales	
Frequency response : 20 Hz - 20,000 Hz	Respuesta de frecuencia : 20 Hz - 20,000 Hz	
Signal-to-noise ratio : 90 dB	Relación señal-ruido : 90 dB	
Wow & flutter : Less than measurable limit	Fluctuación y tremolación : Menor que el límite medible	
Radio section		
Frequency range : FM 87.5-108 MHz AM 522-1,629 kHz	Límites de frecuencia : FM 87.5-108 MHz AM 522-1,629 kHz	Gama frecuencia : FM 87.5-108 MHz AM 522-1,629 kHz
Antennas : Telescopic antenna for FM Ferrite core antenna for AM	Antenas : Antena telescópica para FM Antena de núcleo de ferrita para AM	Antenna : Antena telescópica FM Antena en ferrite AM
Tape deck section		
Track system : 4-track 2-channel stereo		
Motor : Electronic governor DC motor for capstan		
Heads : Deck A: Hard permalloy head for playback. Deck B: Hard permalloy head for recording/playback, 2 gap ferrite head for erasure (Combination head)		
Frequency response : 50 - 15,000 Hz (with metal tape)		
Wow & flutter : 0.23% (WRMS)		
Fast wind time : Aprox. 130 sec (C-60 cassette)		
General		
Speakers		
(Impedance) : 7 cm (2-13/16 inch) x 2 (16 Ω), 10 cm (3-15/16 inch) x 2 (4 Ω)		
Power output : 26 W (13 W + 13 W) at 4 Ω (Mass.) 18 W (9 W + 9 W) at 4 Ω (10% THD)	Respuesta de frecuencia : 50 - 15,000 Hz (con cinta de metal)	
Input terminals : AUX IN (300 mV/120 kΩ)	Fluctuación y tremolación : 0.23% (WRMS)	
Output terminals : PHONES (Output level: 0 - 1.5 mW/ch, 32 Ω. Matching impedance: 16 Ω - 1 kΩ)	Tiempo de bobinado rápido : 130 seg. aprox. (cassette C-60)	
Power requirements : 230 V, 50 Hz		
Power consumption : 32 W (with POWER SW ON) 5.0 W (with POWER SW STANDBY)	Generalidades	
Dimensions : 213 (L) x 213 (H) x 295 (D) mm including knobs	Altavoces (Impedancia) : 7 cm x 2 (16 Ω), 10 cm x 2 (4 Ω)	
Weight : Aprox. 8.4 kg	Salida de potencia : 26 W (13 W + 13 W) a 4 Ω (máx.)	
Accessories provided : AC power cord x 1 Remote control unit (RM-RXC3BK) x 1 "R6/AA (15F)" batteries x 2 (for the remote control)	AUX IN (300 mV/120 kΩ)	
Design and specifications are subject to change without notice.	Terminales de salida : PHONES (nivel de salida: 0 - 1.5 mW/ch, 32 Ω, Impedancia de adaptación: 16 Ω - 1 kΩ)	
	Requisitos de alimentación : 230 V CA, 50 Hz	
	Consumo de energía : 32 W (con POWER en ON) 5.0 W (con POWER en STANDBY)	
	Dimensiones : 662 (A) x 213 (Alt.) x 295 (P) mm, incluyendo las perillas	
	Peso : Aprox. 8.4 kg	
	Accesorios suministrados : Cordon de CA x 1 Unidad de control remoto (RM-RXC3BK) x 1 Pilas "R6/AA (15F)" x 2 (para el controlador remoto)	
	Diseño y especificaciones sujetos a cambio sin aviso	
		Disegno e dati tecnici soggetti a cambiamenti senza preavviso.



JVC
VICTOR COMPANY OF JAPAN, LIMITED

4. Location of Main Parts

■ Front Cabinet Ass'y

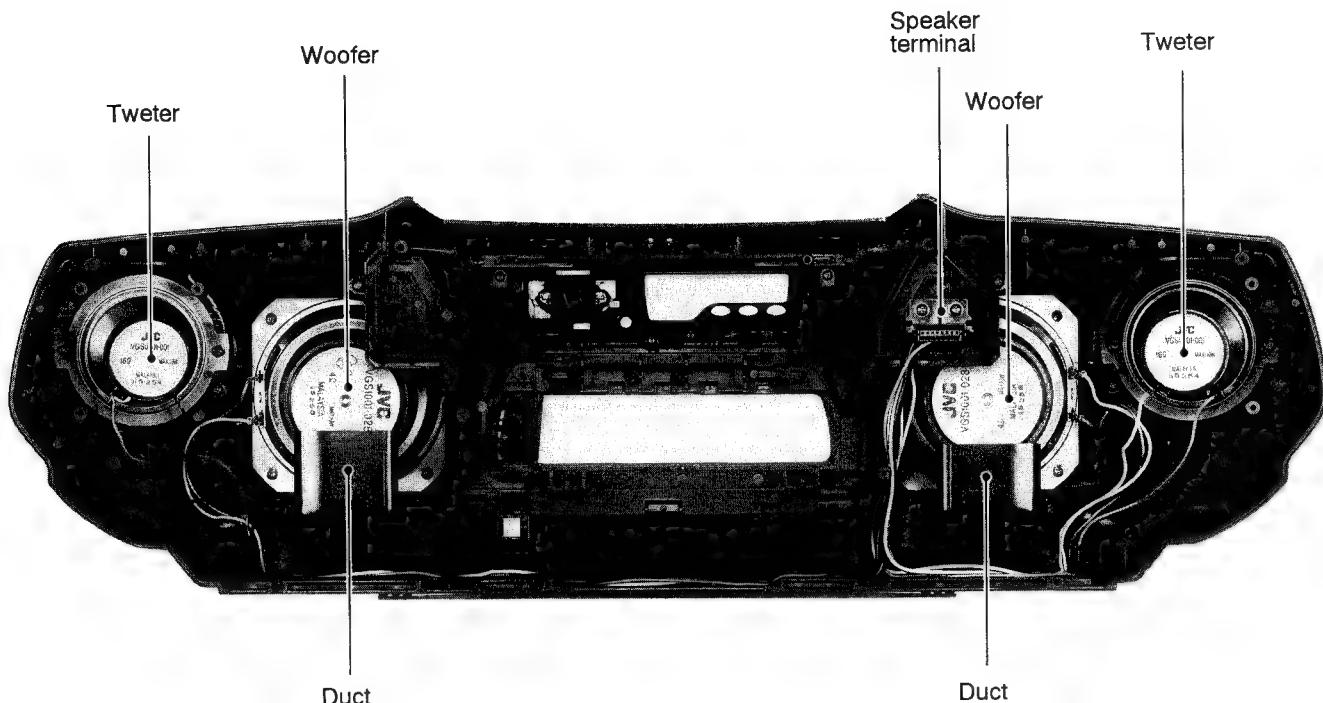


Fig. 4-1

■ Rear Cabinet Ass'y

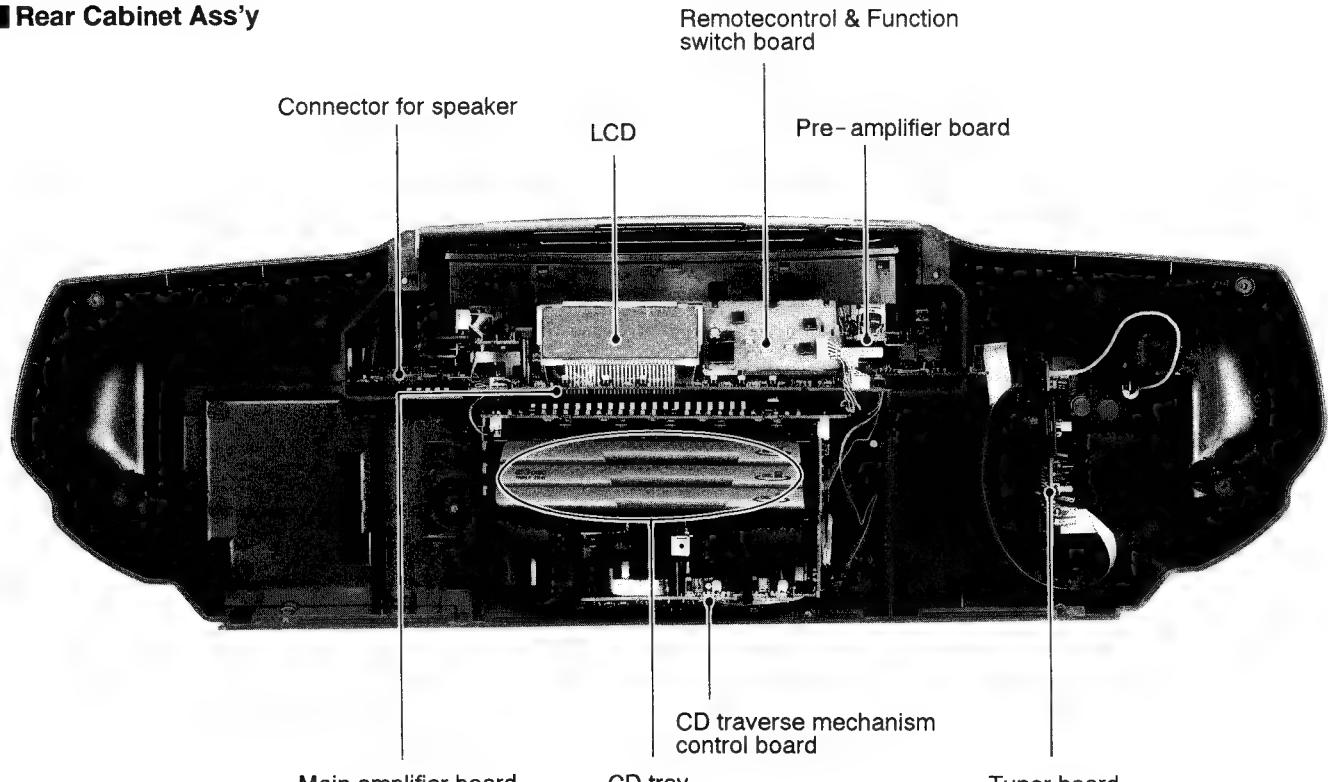


Fig. 4-2

**■ CD Traverse
Mechanism
(Surface)**

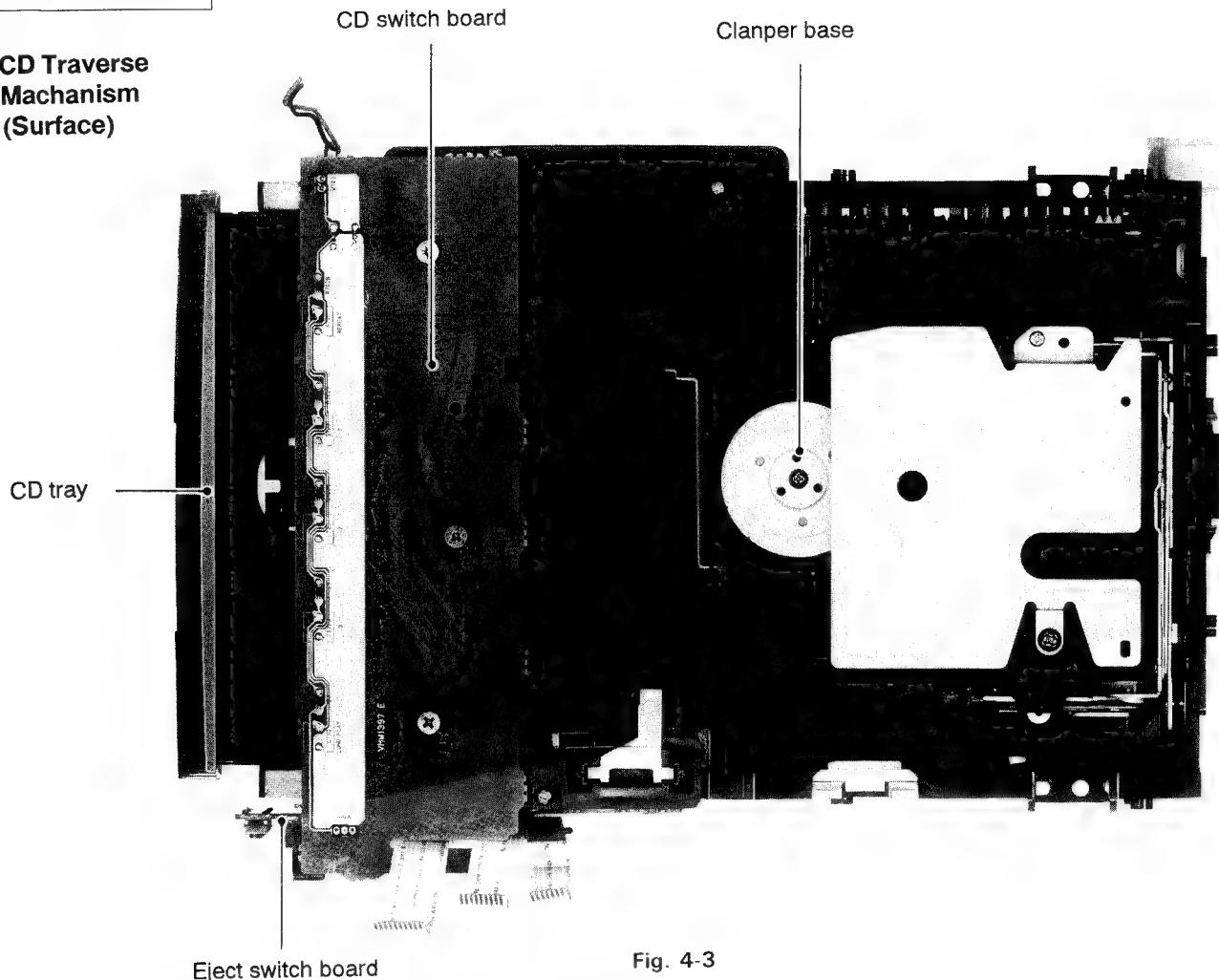


Fig. 4-3

**■ CD Traverse Mechanism
(Backface)**

Eject switch board

CD traverse mechanism control board

CD amplifier board

CD tray

Cam gear base ass'y

Fig. 4-4

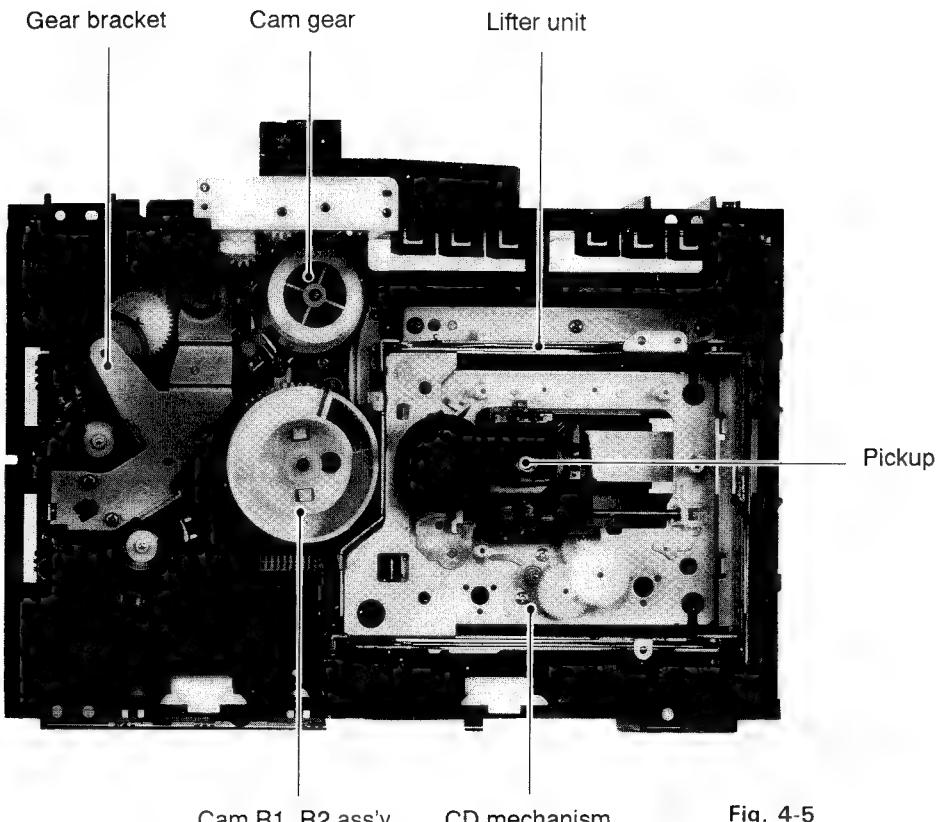


Fig. 4-5

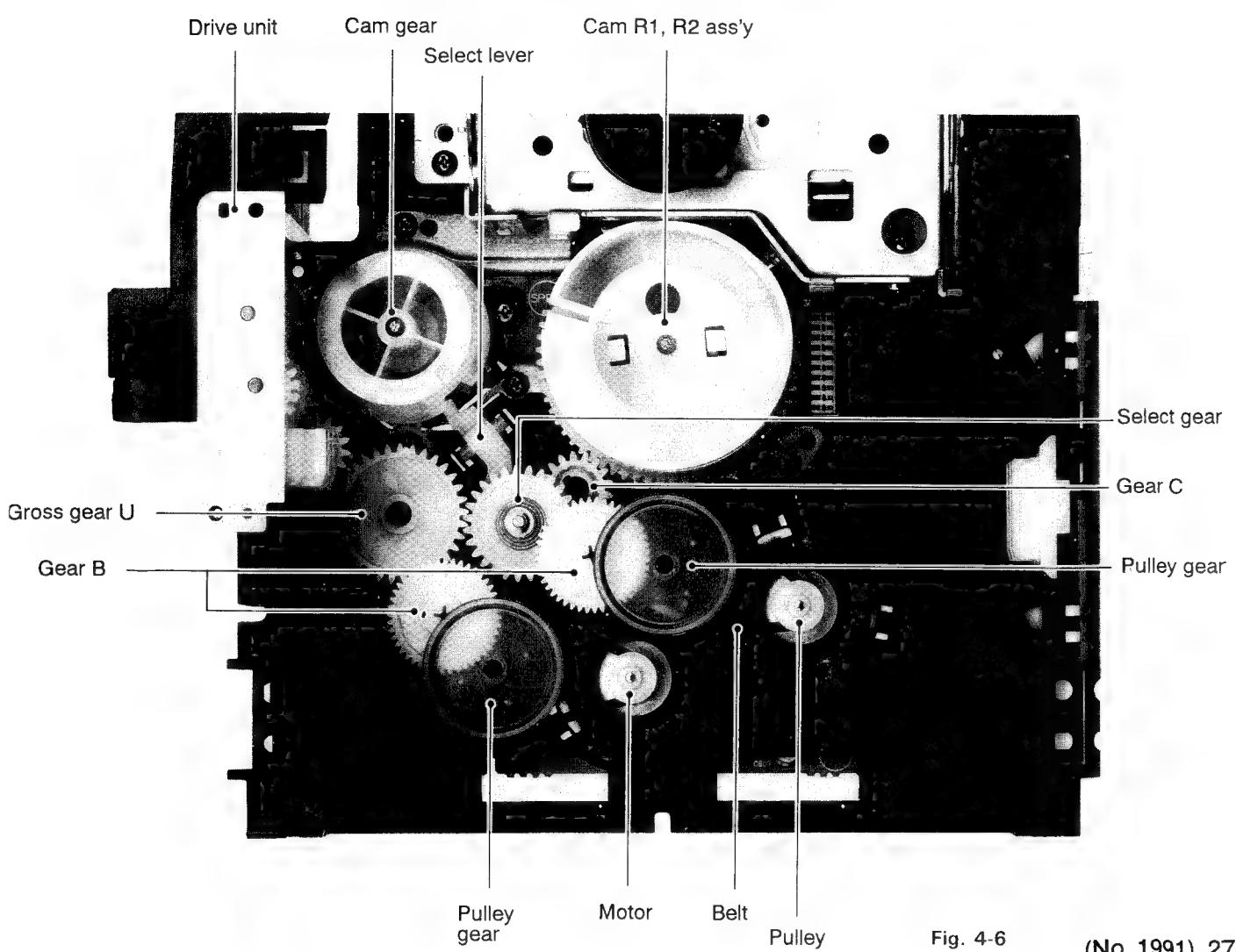
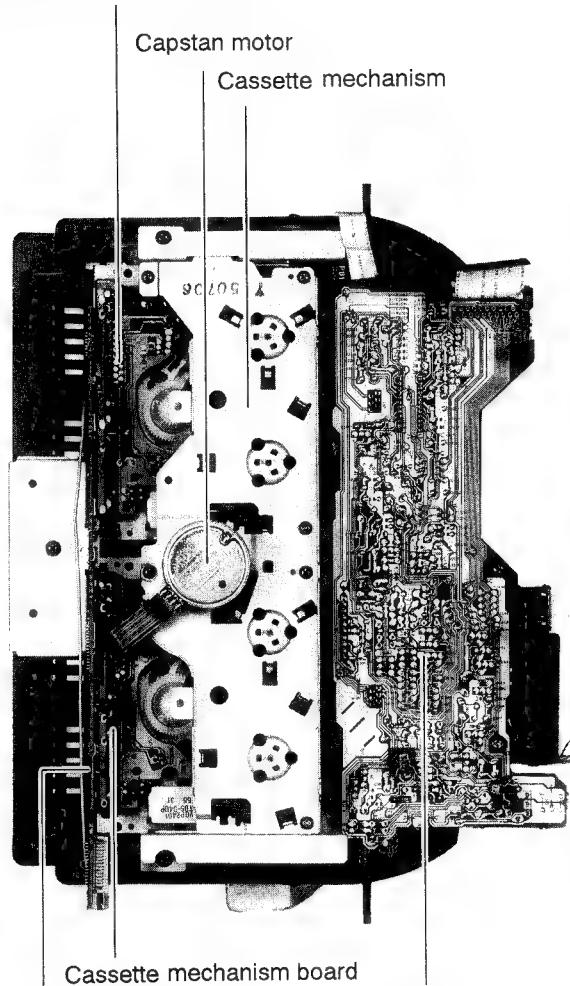


Fig. 4-6

■ Cassette Unit

Cassette mechanism board



Main amplifier board

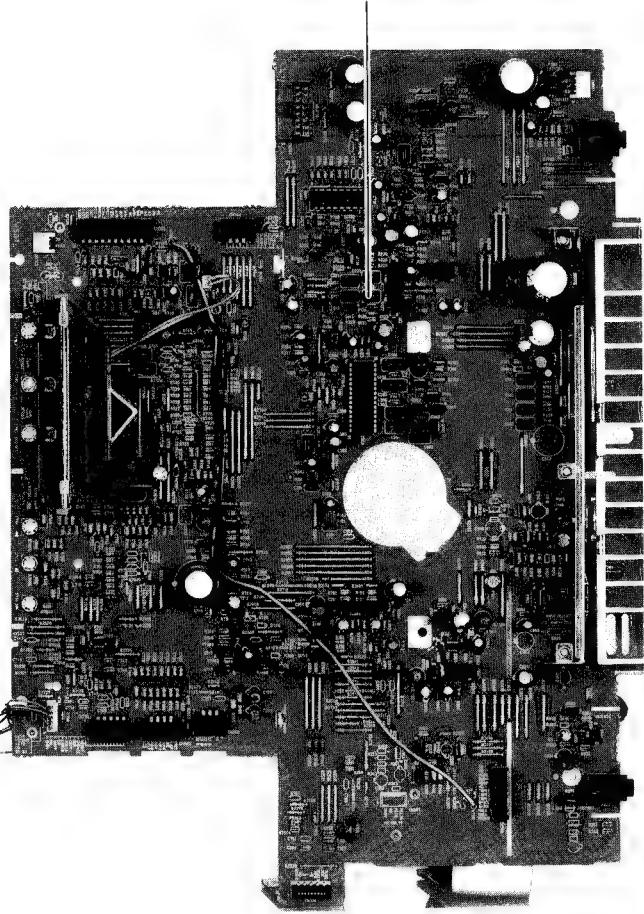
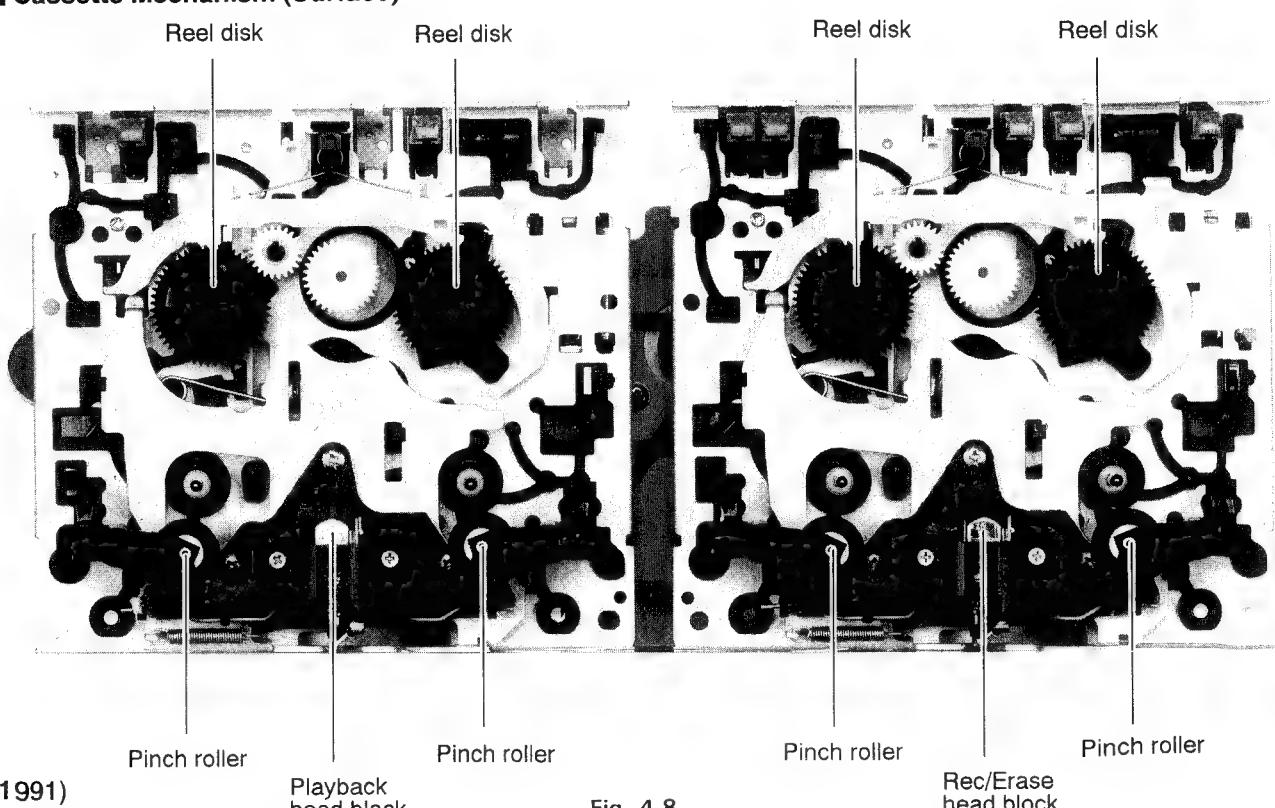


Fig. 4-7

■ Cassette Mechanism (Surface)



5. Removal of Main Parts

■ Power Supply Unit

◆ Cover of Power Supply Unit (See Fig. 5-1)

1. Remove the four screws (1) retaining the cover of the power supply unit behind the set.
2. Remove the cover from the upper side. Meanwhile, the cover should be assembled from the bottom side.

★ It is possible to change the fuse.

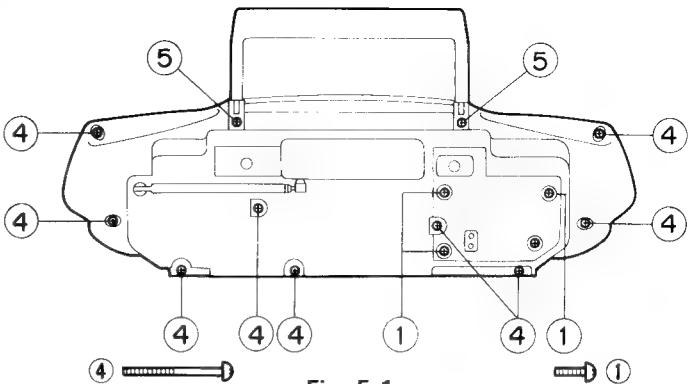


Fig. 5-1

◆ Power Supply P.C. Board Assembly and Power Supply Trans. (See Fig. 5-2)

1. Remove the one screw (2) retaining the power supply P.C. board assembly.
2. Disconnect the connector CN901 from the main amp. P.C. board.
3. Pull out the power supply P.C. board assembly.
4. Remove the four screws (3) retaining the power supply transformer, and pull out the transformer together with the shield case.

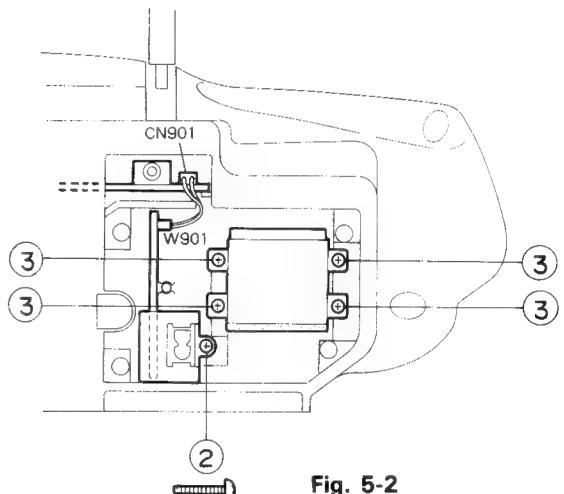


Fig. 5-2

■ Rear Cabinet

◆ Front Cabinet Assembly (See Fig. 5-1)

1. Remove the nine screws (4) retaining the rear and front cabinets, and the two screws (5) retaining the grip.
2. Remove the front cabinet by pulling it to the front side (The speaker connector will be disconnected).

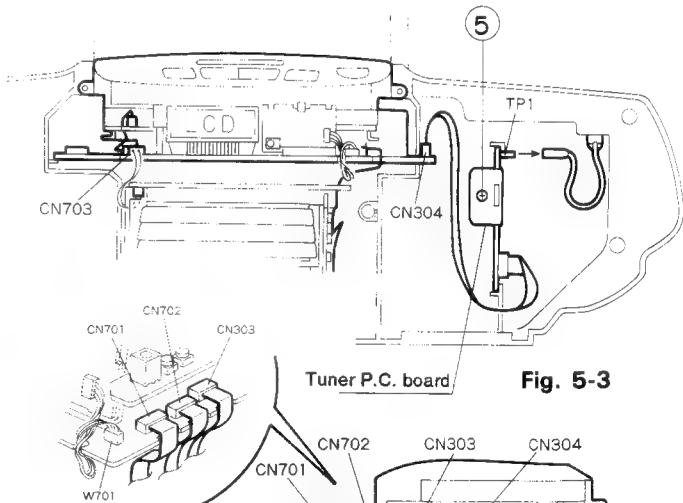


Fig. 5-3

Fig. 5-4-2

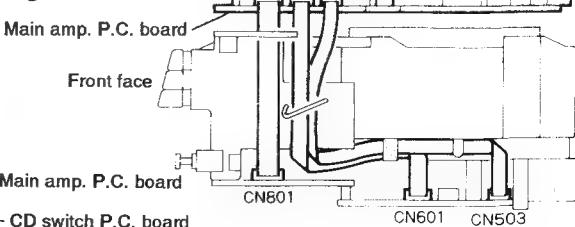


Fig. 5-4

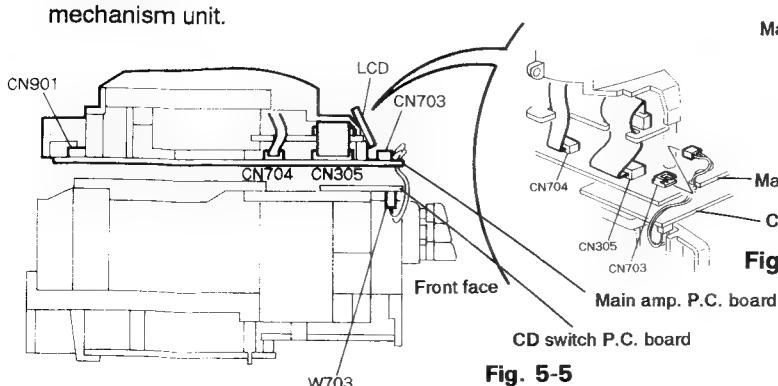


Fig. 5-5

★ In case the CD changer/cassette mechanism unit are removed at the same time (See Fig. 5-6)

1. Disconnect the power supply connector CN901.
2. Disconnect the tuner card wire CN304.
3. After inserting a screw driver, etc. from the window on the rear side of the cabinet, remove the pawl inside the cabinet while slightly pressing the driver in the arrow direction, and pull out the cassette mechanism unit.

◆ CD Changer Unit (See Fig. 5-7)

1. Remove the main amp./cassette mechanism unit.
2. Remove the pawl on the inner left side of the CD changer chassis.
3. Then, the CD changer unit will be removed (disassembled).

■ Disassembly of the Main Amp./Cassette Mechanism Unit

◆ Main P.C. Board Assembly

(See Figs. 5-8 and 5-9)

1. From the main P.C. board assembly, disconnect the card wires CN305 and CN704.
2. Remove the remote controller/function P.C. board assembly on the front side.
3. After turning over the unit, remove the four screws (6) retaining the main amp. P.C. board assembly.
4. Disconnect the connector CN306 for connecting with the Junction P.C. board assembly, and remove the pawl while sliding the P.C. board assembly in the arrow direction.

◆ Preamp. P.C. Board Assembly (See Fig. 5-10)

1. Remove the two screws (7) retaining the preamp. P.C. board.
2. After raising the preamp. P.C. board assembly, disconnect the head flexible wires CN311 and CN312.

◆ Cassette Mechanism Assembly (See Fig. 5-10)

1. Remove the seven screws (8) retaining the cassette mechanism assembly.
2. After opening the cassette door, remove the cassette mechanism assembly.

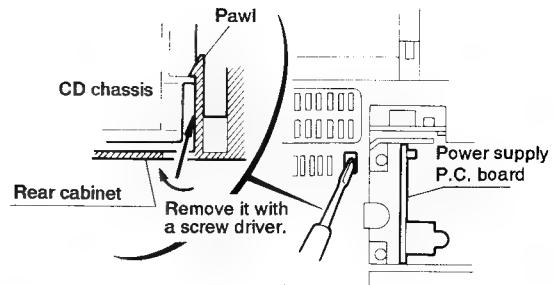


Fig. 5-6

Pull the CD changer unit while pressing the pawl in the arrow direction. Then, the unit will be removed.

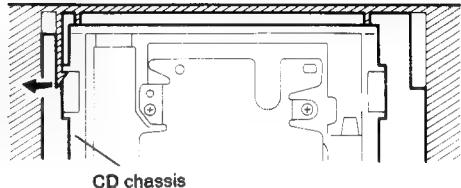


Fig. 5-7

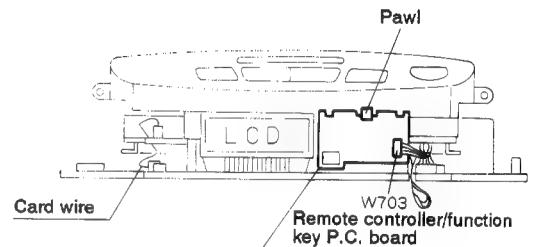


Fig. 5-8

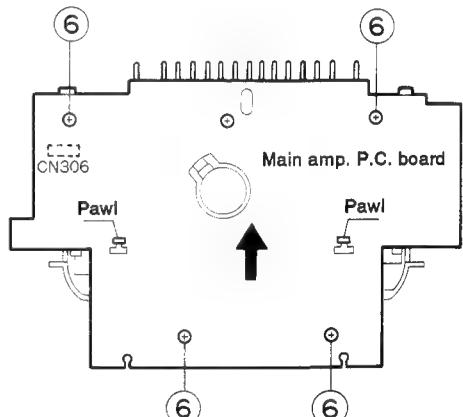


Fig. 5-9

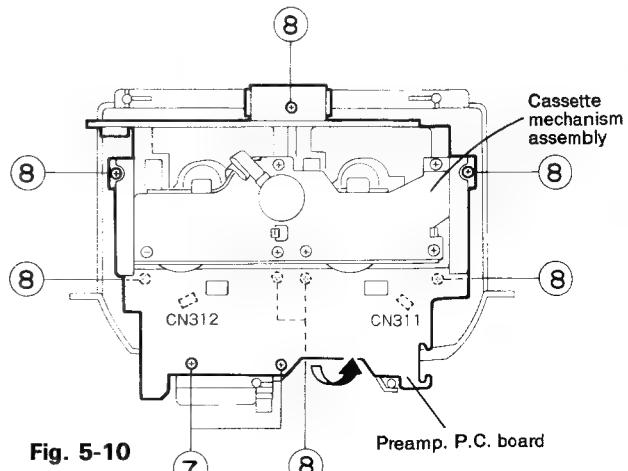


Fig. 5-10

◆ Cassette Key Switch P.C. Board Assembly

(See Fig. 5-11)

1. Remove the preamp. P.C. board.
2. Remove the five screws (9) retaining the cassette key switch P.C. board assembly.

◆ Junction P.C. Board Assembly (See Fig. 5-12)

1. Remove the four screws (12) retaining the Junction P.C. board assembly.

◆ Cassette Mechanism Bracket (See Fig. 5-13)

1. Remove the two screws (13) retaining the right and left sides of the cassette mechanism.

■ Front Cabinet (See Fig. 5-14)

1. Remove the two screws (19) retaining the speaker terminal connector.

◆ Cap

1. Remove the three screws (16) retaining the caps on the right and left sides).

◆ Woofer Speakers

1. Remove the eight screws (17) retaining the woofer speakers (right and left).

◆ Tweeter Speakers

1. Remove the four screws (15) retaining the tweeter speakers (right and left).

◆ Duct

1. Remove the four screws (18) retaining the ducts (right and left).

■ CD Changer (See Figs. 5-15 and 5-16)

◆ CD Switch P.C. Board Assembly

1. Remove the three screws (10) retaining the CD switch P.C. board assembly.

◆ Eject Switch P.C. Board Assembly

1. Remove the two screws (11) retaining the eject switch P.C. board assembly.

◆ CD Amp. P.C. Board Assembly

1. Remove the one screw (14) retaining the CD amp. P.C. board assembly.
2. Disconnect the P.C. board connecting card wires CN501, CN503, CN601 and connector CN502.

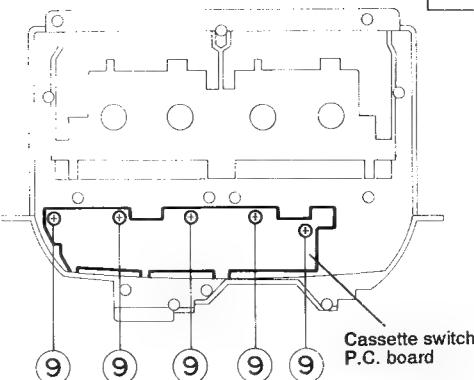


Fig. 5-11

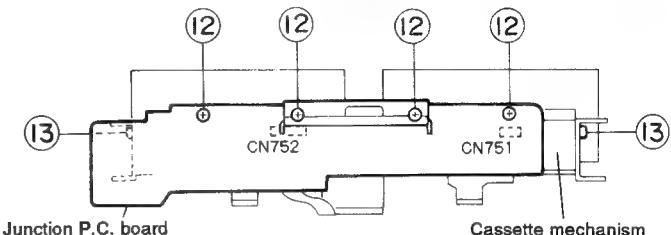
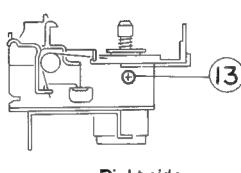
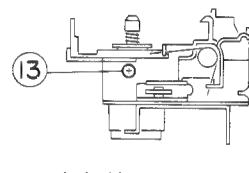


Fig. 5-12



Right side



Left side

Fig. 5-13

Fig. 5-13-1

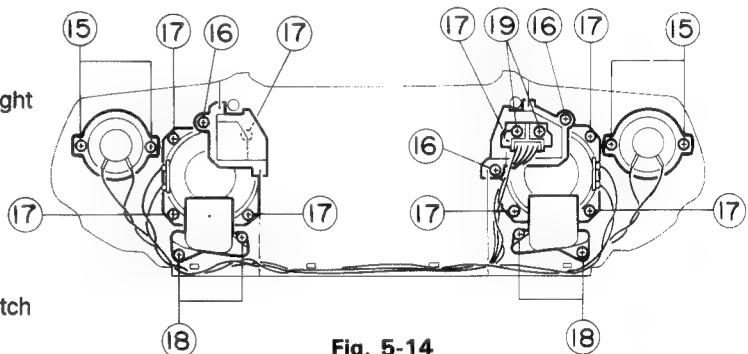


Fig. 5-14

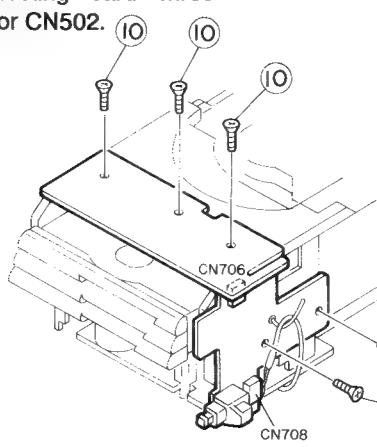


Fig. 5-16

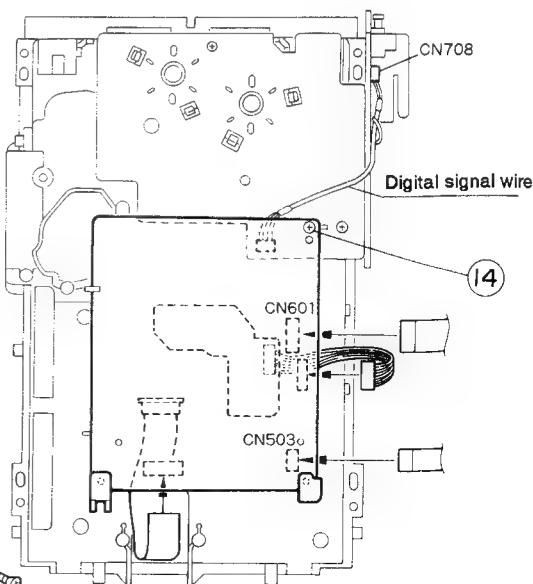


Fig. 5-15

CD Changer Mechanism Sections

■ Removing the CD tray assembly

(See Figs. 5-17~5-23)

1. Remove the front panel assembly.
2. Remove the CD changer assembly.
3. Remove the CD amplifier board.
4. From the T. bracket section (A) and clamper base section (B), remove both of the edges fixing the rod (See Figs. 5-17 and 5-18).
5. Remove the three screws (1) retaining the T. bracket (See Fig. 5-17).
6. From the left side face of the chassis assembly, remove the one screw (4) retaining both of the return spring and lock lever.
7. By removing the pawl at the section (D) fixing the return spring, dismount the return spring (See Fig. 5-19).
8. Remove the three lock levers (See Fig. 5-19).

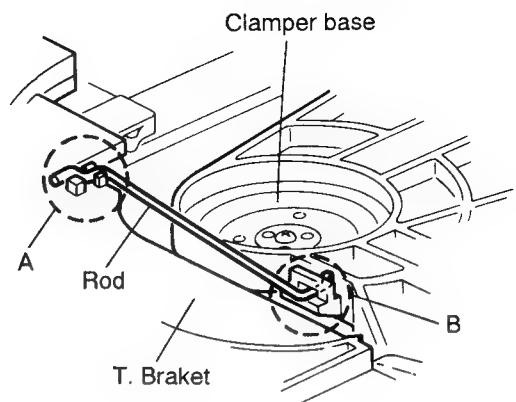


Fig. 5-17

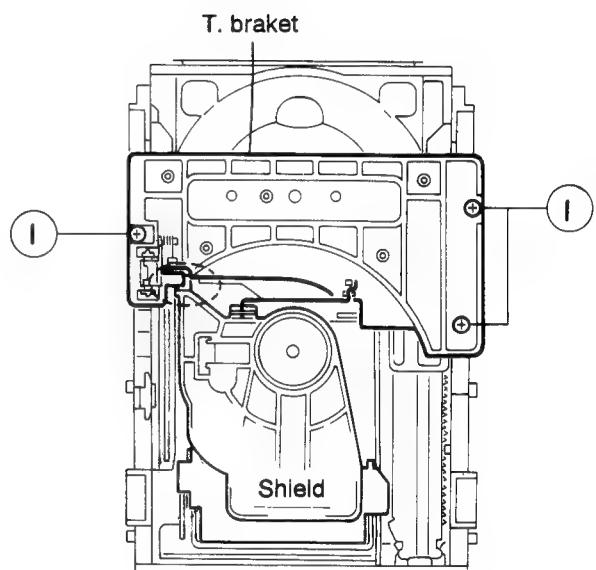


Fig. 5-18

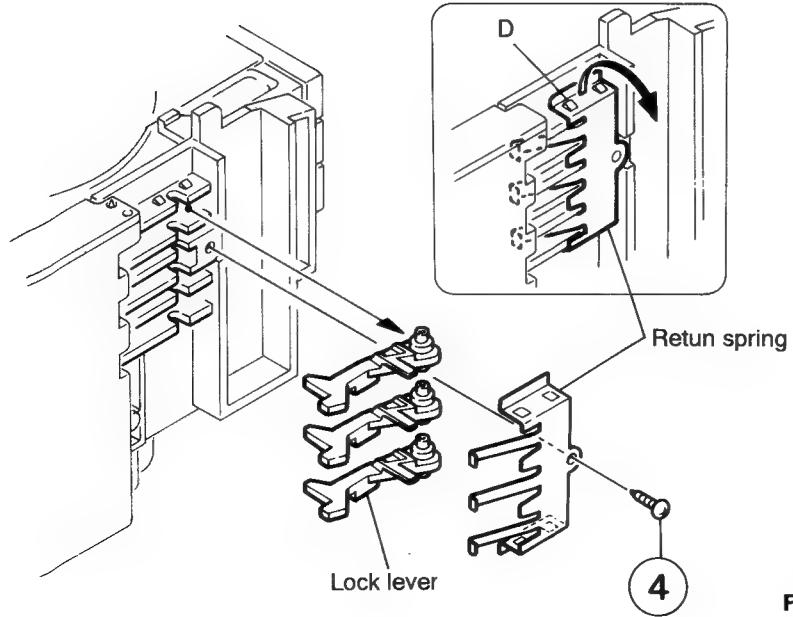


Fig. 5-19

11. Check whether the lifter unit stopper has been caught into the hole at the section (F) of CD tray assembly as shown in Fig. 5-21.

12. Make sure that the driver unit elevator is positioned as shown in Fig. 5-21a from the second or fifth hole on the left side face of the CD changer mechanism.

[Caution] In case the driver unit elevator is not at the above position, set the elevator to the position as shown in Fig. 5-21a by manually turning the pulley gear as shown in Fig. 5-22.

13. Manually turn the motor pulley in the clockwise direction until the lifter unit stopper is lowered from the section (F) of CD tray assembly (See Fig. 5-22).

14. Pull out all of the three stages of CD tray assembly in the arrow direction (E) until these stages stop (See Fig. 5-20).

15. At the position where the CD tray assembly has stopped, pull out the CD tray assembly while pressing the two pawls (G) on the back side of CD tray assembly (See Fig. 5-23). In this case, it is easy to pull out the assembly when it is pulled out first from the stage CD tray assembly.

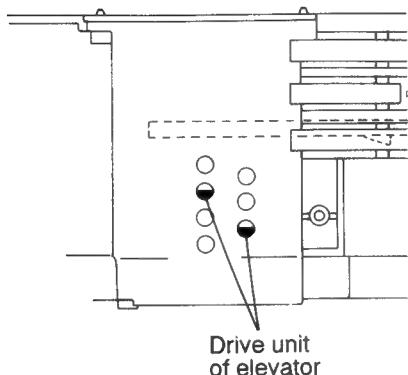
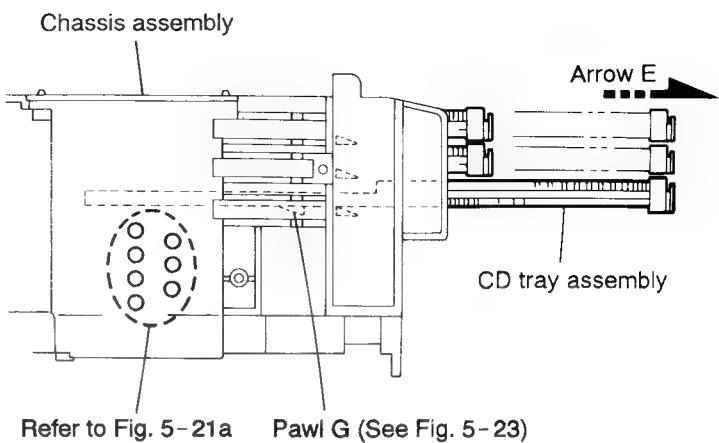


Fig. 5-21a



Refer to Fig. 5-21a Pawl G (See Fig. 5-23)

Fig. 5-20

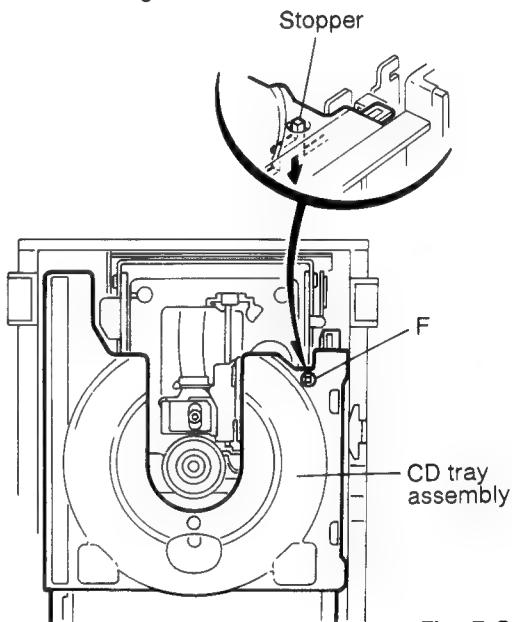


Fig. 5-21

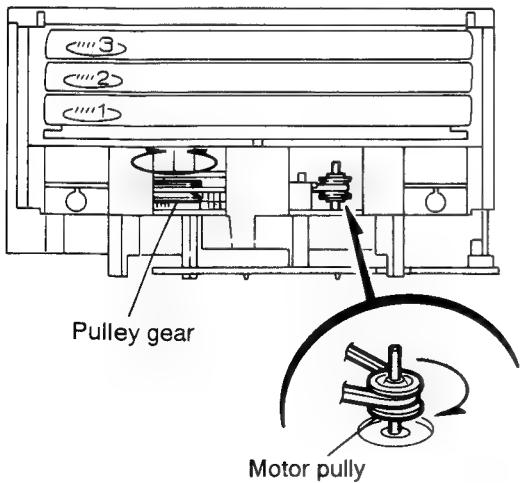


Fig. 5-22

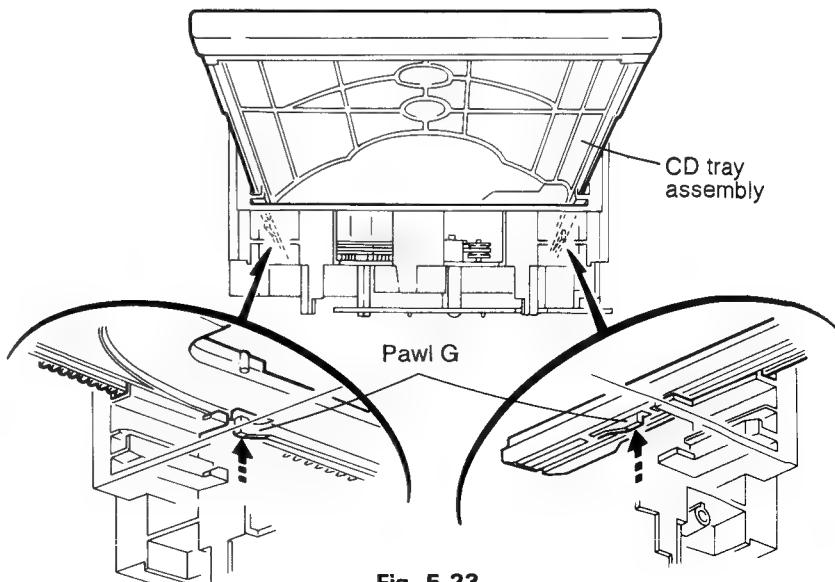


Fig. 5-23

■ Removing the CD mechanism assembly (See Fig. 5-24).

1. While turning the cams R1 and R2 assembly in the arrow direction (I), align the shaft (J) of the CD mechanism assembly to the position shown in Fig. 5-24.
2. Remove the four screws (5) retaining the CD mechanism assembly (See Fig. 5-24).

■ Removing the CD mechanism (See Figs. 5-25 and 5-26).

1. For dismounting only the CD mechanism without removing the CD mechanism assembly, align the shaft (L) of the CD mechanism assembly to the position shown in Fig. 5-25 while turning the cam R1 and R2 assembly in the arrow direction (K).
2. By raising the CD mechanism assembly in the arrow direction (M), remove the assembly from the lifter unit (Fig. 5-26).

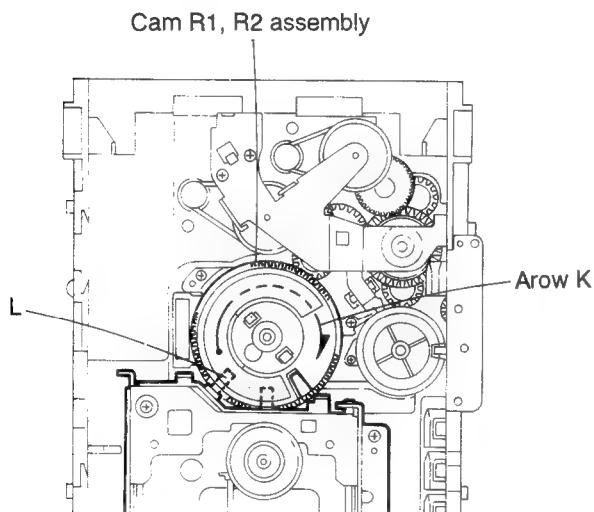


Fig. 5-25

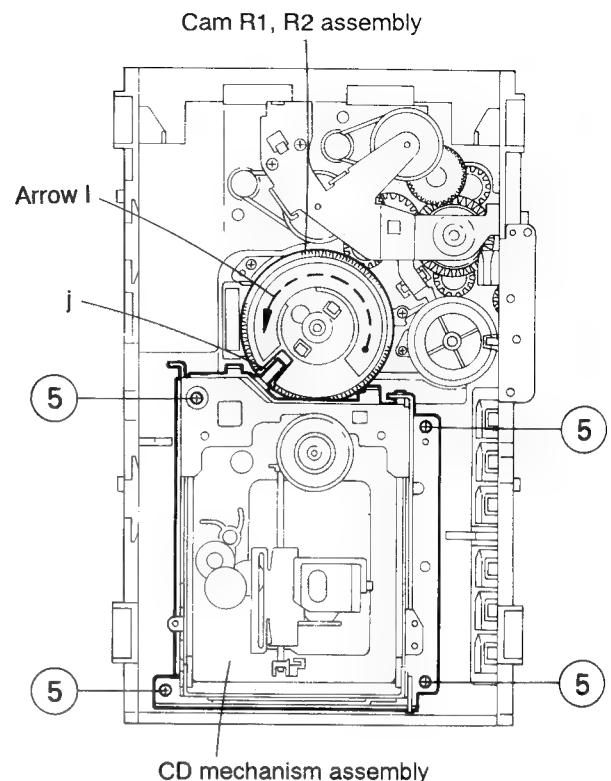


Fig. 5-24

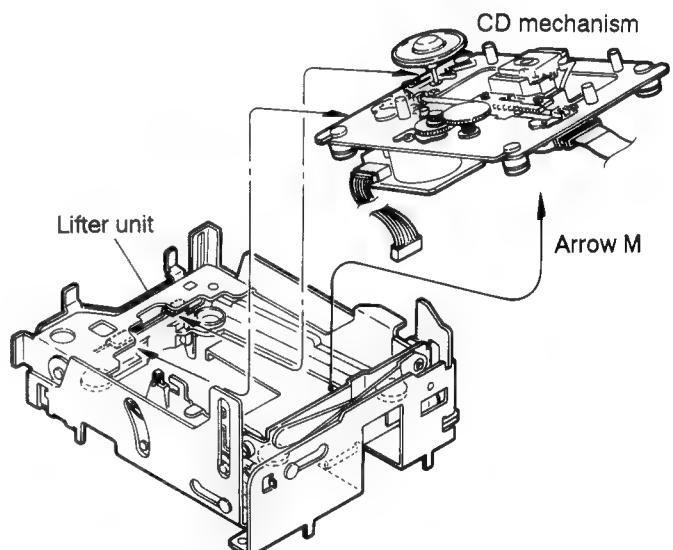


Fig. 5-26

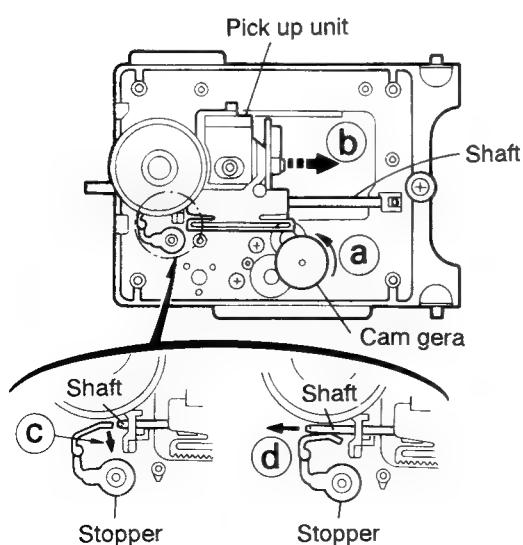


Fig. 5-27

■ Removing the CD pickup unit (See Fig. 5-27).

1. Move the cam gear in the arrow direction ④. Then, the CD pickup unit will be moved in the arrow direction ⑤.
2. According to the above step, shift the CD pickup unit to the center position (See Fig. 5-27).
3. While pressing the stopper retaining the shaft in the arrow direction ③, pull out the shaft in the arrow direction ④ (See Fig. 5-27).
4. After dismounting the shaft from the CD pickup unit, remove the CD pickup unit.

■ Removing the actuator motor board

(See Figs. 5-28 and 5-29)

- Absorb the four soldered positions (N) of the right and left motors with a soldering absorber (See Fig. 5-28).
- Remove the two screws (6) retaining the actuator motor board (See Fig. 5-29).
- Remove the one screw (11) retaining the bracket (See Fig. 5-28).
- Remove the two screws (7) retaining the tray select switch board (See Fig. 5-29).

■ Removing the cam unit

(See Figs. 5-18~5-20)

- Remove the CD mechanism assembly.
- While turning the cam gear L, align the pawl (N) position of the drive unit to the notch position (Fig. 5-30) on the cam gear L.
- Pull out the drive unit and cylinder gear (See Fig. 5-31).
- While turning the cam gear L, align the pawl (O) position of the select lever to the notch position (Fig. 5-32) on the cam gear L.
- Remove the four screws (8) retaining the cam unit (cam gear L and cams R1/R2 assembly) (See Fig. 5-32).

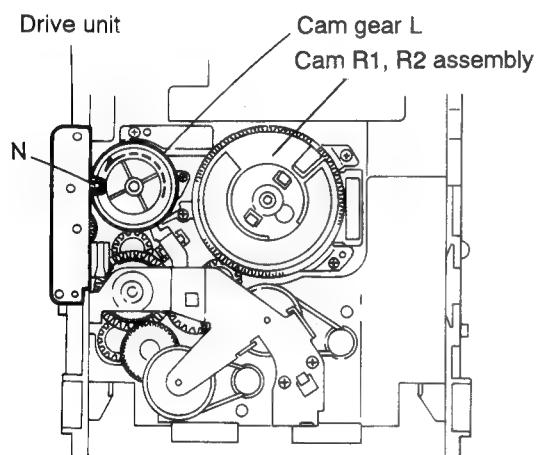


Fig. 5-30

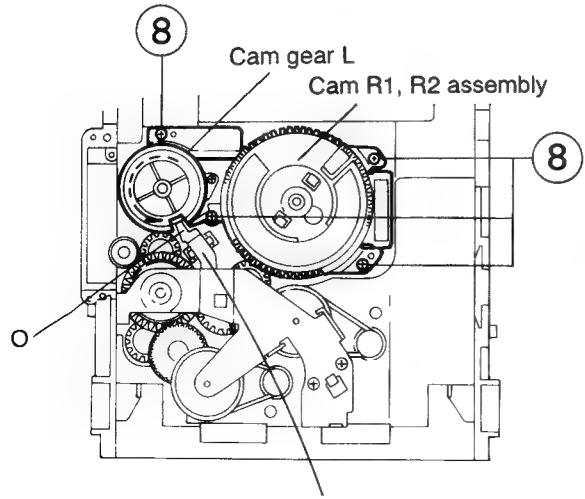


Fig. 5-32

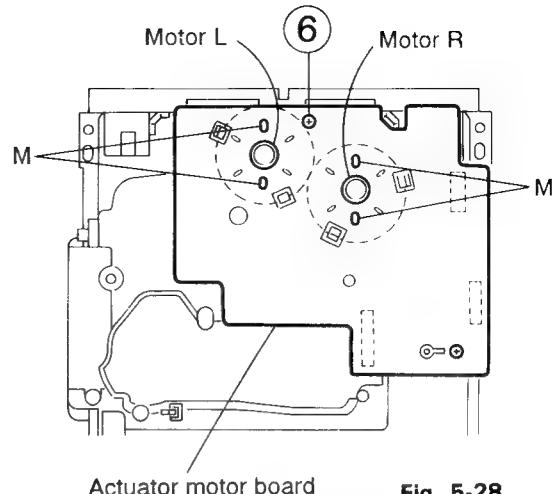


Fig. 5-28

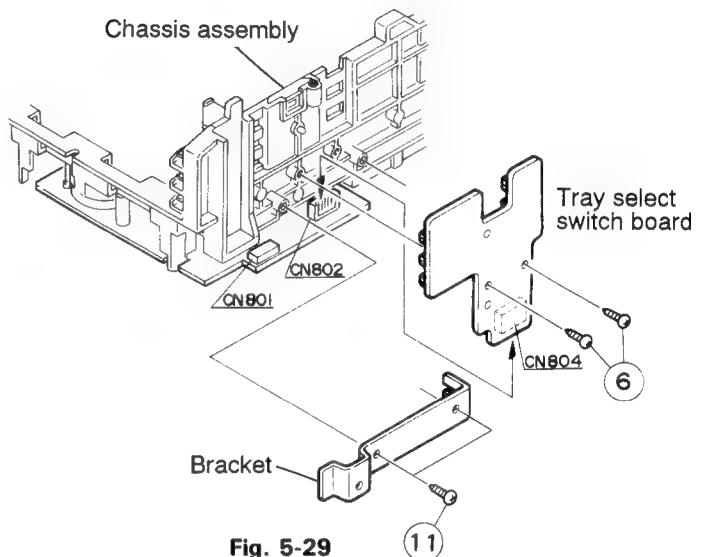


Fig. 5-29

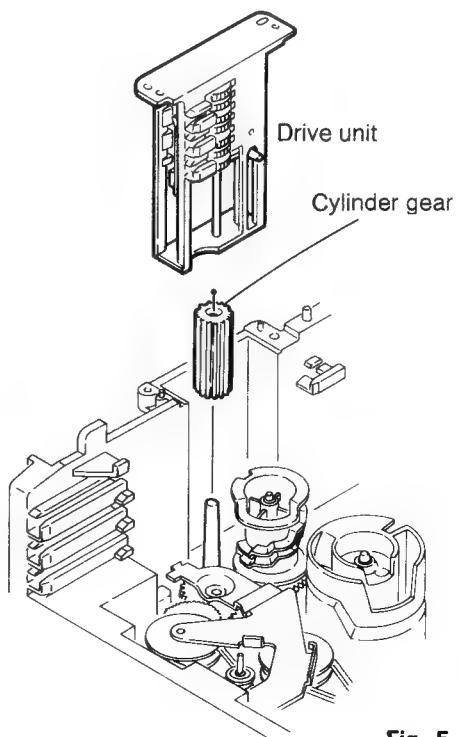


Fig. 5-31

■ Removing the actuator motor and belt

(See Figs. 5-33~5-36).

1. Remove the two screws (9) retaining the gear bracket (See Fig. 5-33).
2. While pressing the pawl (P) fixing the gear bracket in the arrow direction, remove the gear bracket (See Fig. 5-33).
3. From the notch (Q section) on the chassis assembly fixing the edge of gear bracket, remove and take out the gear bracket (See Fig. 5-34).
4. Remove the belts respectively from the right and left actuator motor pulleys and pulley gears (See Fig. 5-35).
5. After turning over the chassis assembly, remove the actuator motor while spreading the four pawls (R) fixing the right and left actuator motors in the arrow direction (See Fig. 5-35).

[Note] When the chassis assembly is turned over under the conditions wherein the gear bracket and belt have been removed, then the pulley gear as well as the gear, etc. constituting the gear unit can possibly be separated to pieces. In such a case, assemble these parts by referring to the assembly and configuration diagram in Fig. 5-36.

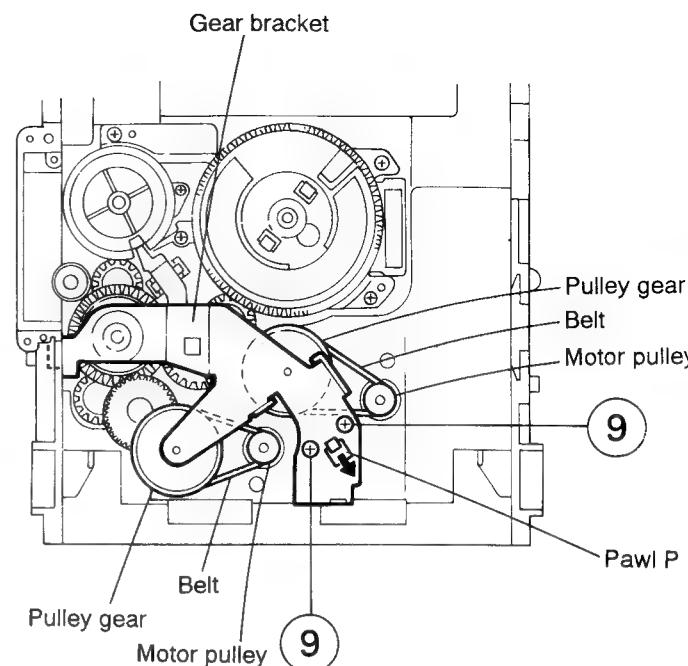


Fig. 5-33

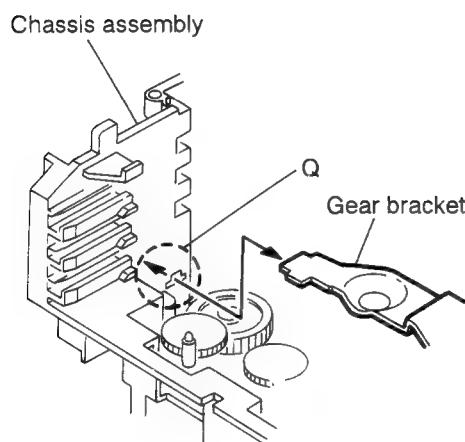


Fig. 5-34

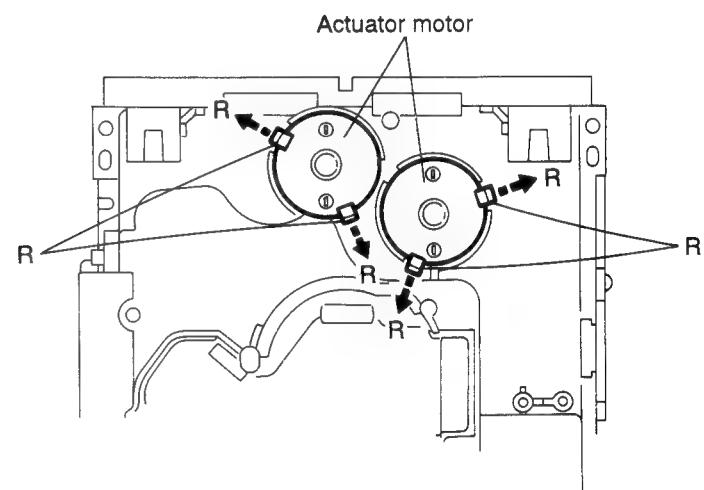


Fig. 5-35

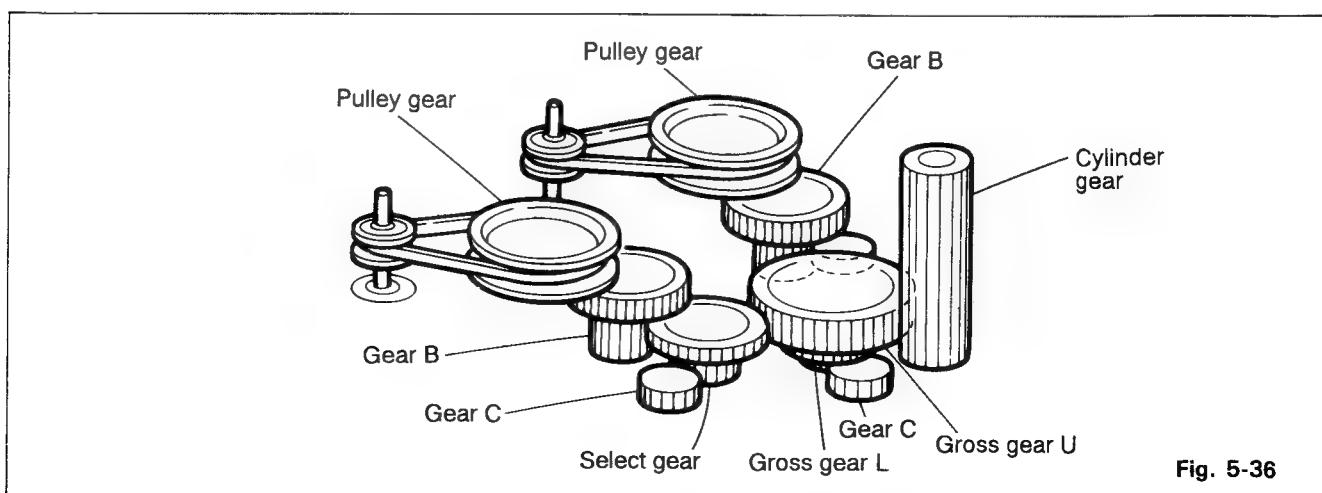


Fig. 5-36

■ Removing the cams R1/R2 assembly and cam gear L (See Fig. 5-37).

1. Remove the slit washer fixing the cams R1 and R2 assembly.
2. By removing the two pawls (S) fixing the cam R1, separate R2 from R1.
3. Remove the slit washer fixing the cam gear L.
4. Pull out the cam gear L from the C.G. base assembly.

■ Removing the C.G. base assembly

(See Figs. 5-37 and 5-38).

Remove the three screws (10) retaining the C.G. base assembly.

[Caution] To reassemble the cylinder gear, etc. with the cam unit (cam gear and cams R1/R2 assembly), gear unit and drive unit, align the position of the pawl (N) on the drive unit to that of the notch on the cam gear L. Then, make sure that the gear unit is engaged by turning the cam gear L.

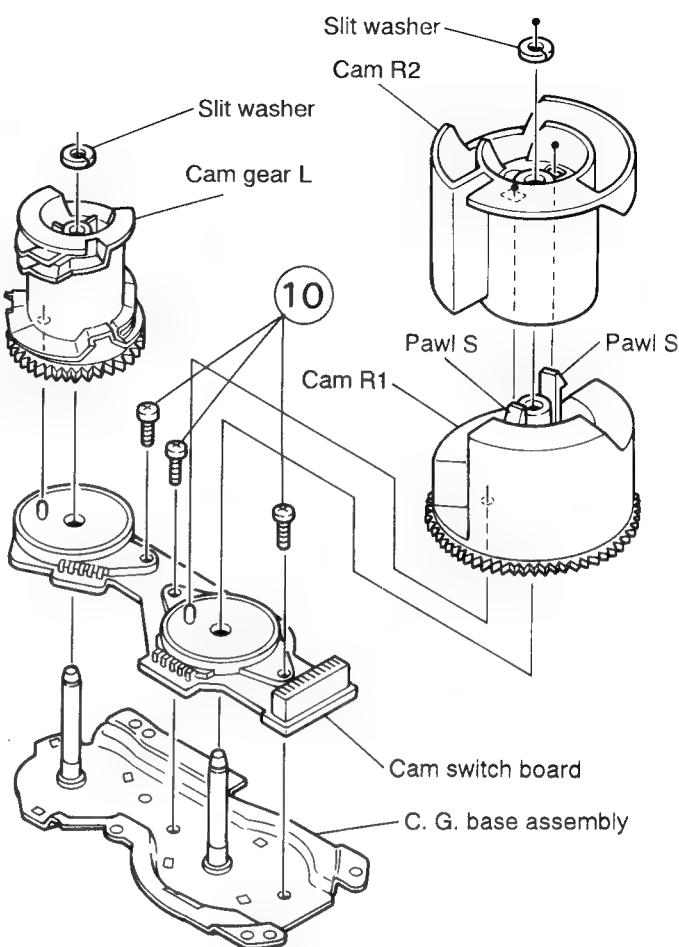


Fig. 5-37

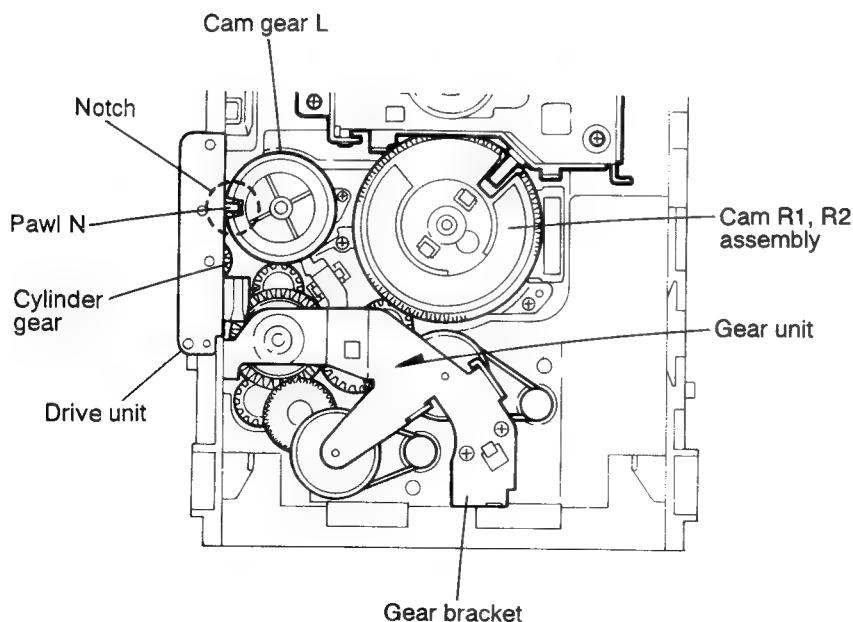


Fig. 5-38

■ Disassembling the Cassette Mechanism

■ Head Mount Assembly (See Fig. 5-39)

1. Remove the three screws (1) retaining the head mount assembly.
2. Remove the head wire holder from the chassis.
- ★ Whenever the head mount has been changed, be sure to adjust the head angle.
- At the time of assembly, combine the gear section of direction lever and the head mount gear as shown in Fig. 5-39.

■ Pinch Roller Assembly (See Fig. 5-40)

Right side:

1. Open outward the pawl (A) retaining the pinch roller assembly on the right side, and pull out the pinch roller assembly.
- Prior to assembly, make sure that the stud at the lower part of the pinch roller has been inserted between the direction lever and pinch roller spring.

Left side:

1. Pull out the pinch roller assembly on the left side similarly as in the case of that on the right side.

■ Capstan Motor and Flywheel Assembly

(See Figs. 5-41~5-43)

1. Remove the six screws (2) retaining the FM bracket assembly.
2. By opening the three pawls for fixing the FM bracket outward, remove the bracket.
3. When the FM bracket has been raised, the capstan belt, flywheel and so forth will be disassembled. At this time, the reel belt will be caught between the flywheel and main pulley. Therefore, remove the flywheel and pulley by using a tool as appropriate to prevent any damage to the reel belt. When the flywheel has been hooked to the FM bracket, remove the flywheel together with the bracket as it has been hooked.

● Assembly method

1. Attach the larger flywheel to the FM bracket as shown in Fig. 5-40/41.
2. Hang the capstan belt.
3. Attach the smaller flywheel (to the FM bracket).
4. Hang the reel belt on the mechanism assembly stud as shown in Fig. 5-40 so carefully that the belt will not be twisted.
5. After turning over the FM bracket upside down, insert the capstan into the capstan metal.
6. Remove the reel belt from the stud and hang it onto the flywheel (At this time, make sure that the belt is free from twisting).

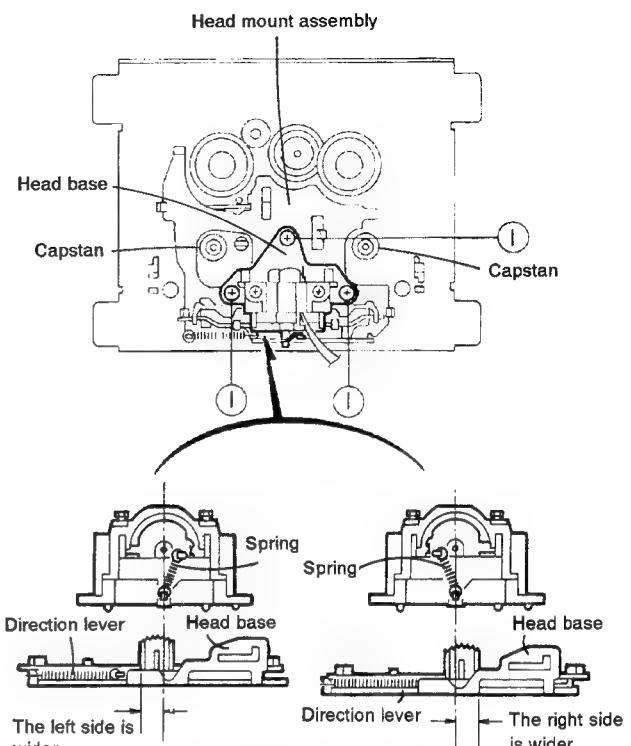


Fig. 5-39

At the time of assembly,
the stud should be inserted
into the direction lever.

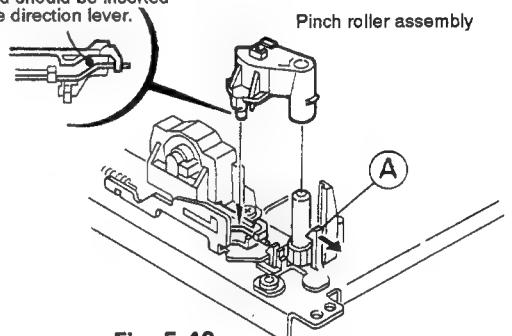


Fig. 5-40

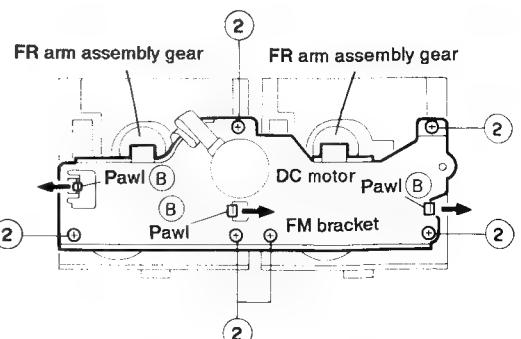


Fig. 5-41

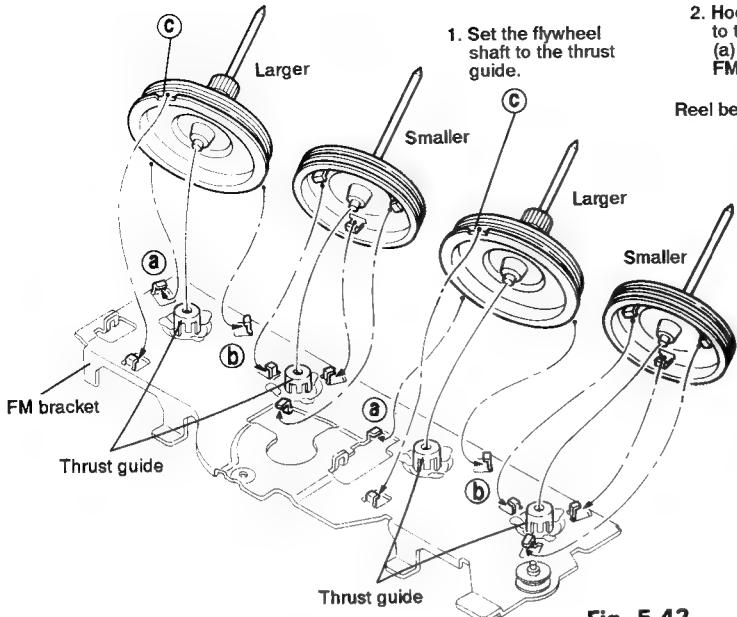


Fig. 5-42

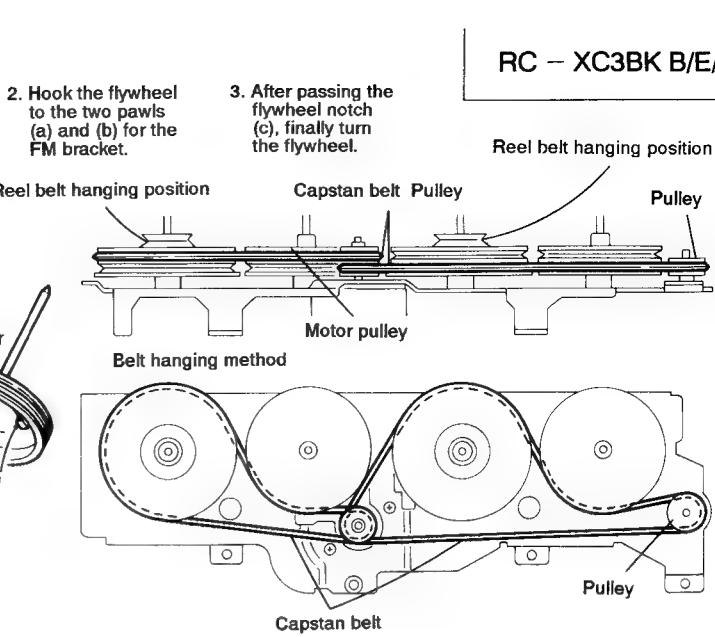


Fig. 5-43

■ Mechanism P.C. Board Assembly

(See Fig. 5-44)

1. In case the solenoid is not dismounted, remove the P.C. board soldering at the solenoid terminal.
2. Remove the one screw (3) retaining the mechanism P.C. board.
3. Remove the four pawls (C) retaining the mechanism P.C. board assembly.
4. Then, the P.C. board can be removed. At this time, it is possible to change the hole IC, S6 relay and so forth. Meanwhile, the reef switch can be changed without removing the P.C. board.

■ Control Cam (See Figs. 5-45~5-50)

1. Remove the FM bracket and flywheel.
2. Pull out the main pulley.
3. Remove the trigger arm. Namely, pull out the trigger arm from the shaft while opening the two pawls (D) at the lower part of the arm.
4. Pull out the elevator ring.
5. Remove the FR arm assembly as follows:
 - a. Remove the FR arm spring.
 - b. Pull out the FR arm while opening the four pawls (E) retaining the FR arm outward.
6. Pull out the control cam while moving the shaft stopper section of the control cam closer to the center.

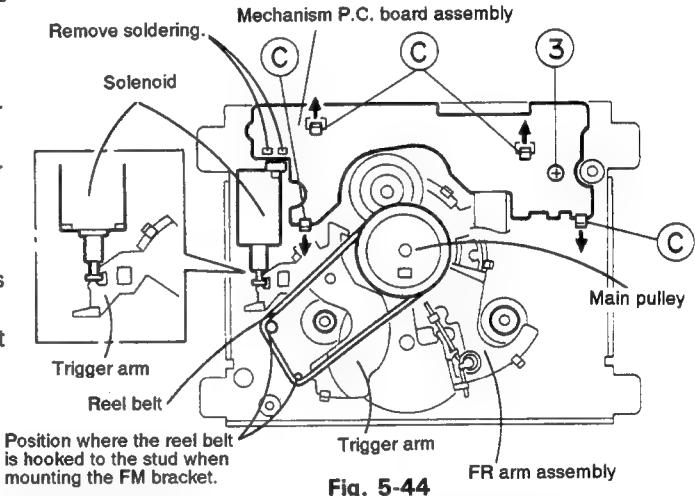


Fig. 5-44

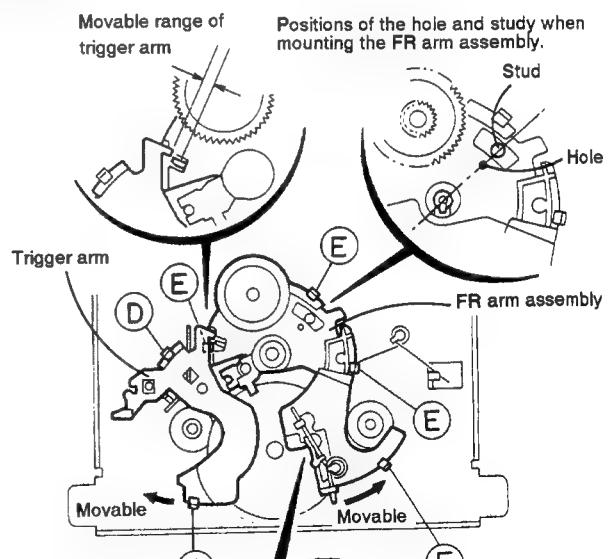


Fig. 5-45

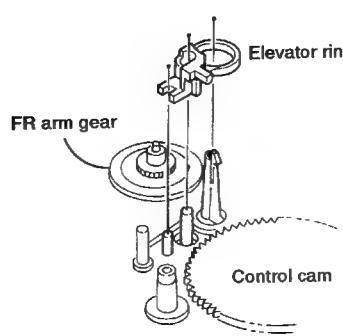


Fig. 5-46

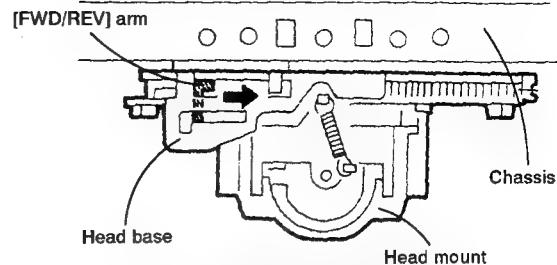
Positions of the cam hole and arm tip when mounting the FR arm assembly.

● Assembly Method

1. Move the [FWD/REV] arm closer toward the arrow.
2. Under the condition in Item 1 above, pull the head base to the front side.
3. Under the condition in Item 2 above, insert the cam shaft, and finely move the head base and [FWD/REV] arm. Then, the cam can be inserted to the innermost part and firmly locked.
4. Next, confirm that the cam can be turned smoothly when turned in the counterclockwise direction. Moreover, it should also be confirmed that the spring is clicked due to the cross action of the head base.
5. After confirming that the cam can be rotated, turn the cam so that the notch is positioned to the right side in order to make it possible to mount the FR arm assembly.
6. Mount the FR arm assembly. In this case, the FR arm assembly should be set carefully by aligning it to the two positions in Fig. 5-33. Then, confirm that the FR arm is returned to the initial position when it is moved in the arrow direction.
7. Attach the elevator ring.
8. Mount the trigger arm, and confirm that the trigger arm is returned to the initial position by turning the arm in the arrow direction.

For mounting the control cam:

Pull the head base to the front side while pressing the [FWD/REV] arm in the arrow direction.



When the step in the above diagram has been carried out, then the stud at the lower part of the control cam will be moved as indicated in this diagram.

Fig. 5-47

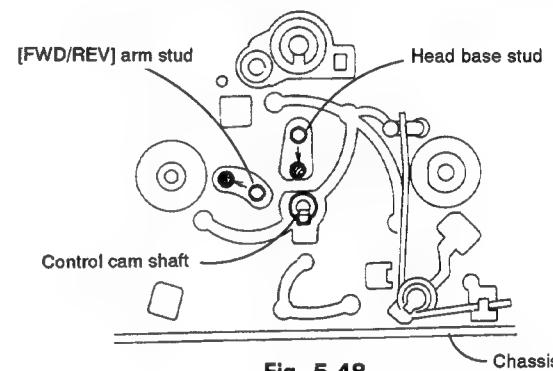
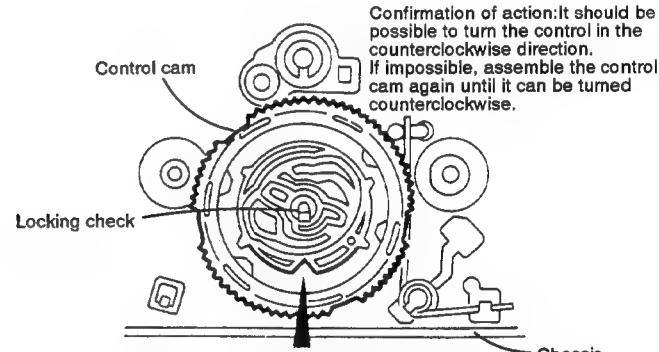


Fig. 5-48



Chassis At the time of assembly, the dent section of the control cam should be located at this position (While finely moving the [FWD/REV] arm and head base, engage these arm and base with the cam groove/keyway).

Fig. 5-49

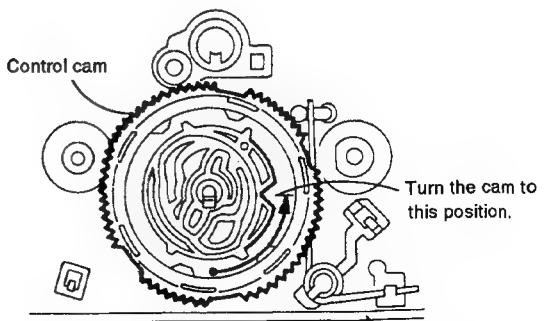


Fig. 5-50

6. Main Adjustment

■ Test Instruments required for adjustment

1. Low frequency oscillator
(oscillation frequency: 50Hz to 20kHz)
(Output : 0 dBs with 60 Ω terminator)
2. Attenuator(Impedance : 600 Ω)
3. Test Tapes
 - VTT712 For tape speed,wow and flutter measurement
 - VTT724 For play back output level
 - VTT739 For playback frequency response check
 - VTT703 For head azimuth measurement
4. Electronic voltmeter, Distortion meter
5. Resistor...600 Ω for attenuator matching
6. Torque gauge.....Cassette type for CTG - N mechanism adjustment
7. Wow and Flutter meter , Frequency counter
8. Blank tape.....Normal :AC- 225,Chrome : AC- 514
9. Extension cord.....EXTXC1 - JIG

■ Measuring conditions (Amplifier section)

Supply voltageAC230V (60Hz)
Reference output : Speaker 0 dBs (0.775V) / 4 Ω
(Volume range 28 – 29)
: Headphone 27 dBs (0.775V)/ 32 Ω
(Volume range ;Maximum)

● Standard position of functionswitches

Function switch TAPE
Suraund switch.....OFF
P. Sound.....Flat position
Super bassOFF
Main volume adjust 0 dBs Vol28 – 29)

● Test remarks

1. Negative side of the input and output on the testing set, that ought to be separately to each other, and then bear in mind there connection the testing set with 2 channeles Electronic voltmeter, the negative side never connect commonly.

2. Replaced output load with a dummy and that lead wire to be used as big as possible.
3. Attach top cover when measuring and connect filter shown below Fig. 1 to V. meter.

■ Measuring condition (Radio section)

Refer to rating source Tuner+B : DC 5.7V
Reference output Speaker : 20mW(0.245 V) / 3 Ω
Headphone : (0.07V)/ 32 Ω
AM frequency 400Hz modulation 30%
FM frequency 400Hz modulation frequency deviation 22.5kHz

● Standard position of switches and controllers

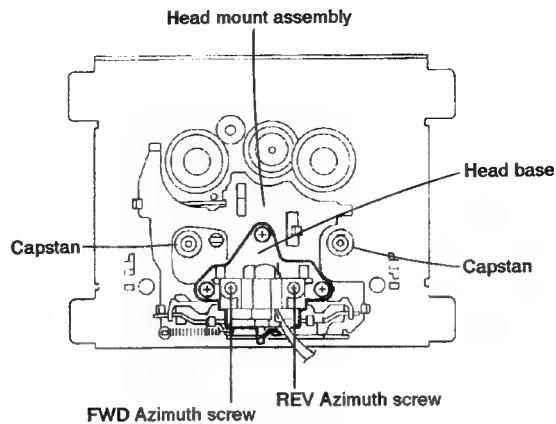
FunctionRADIO

● Careful points for adjustment

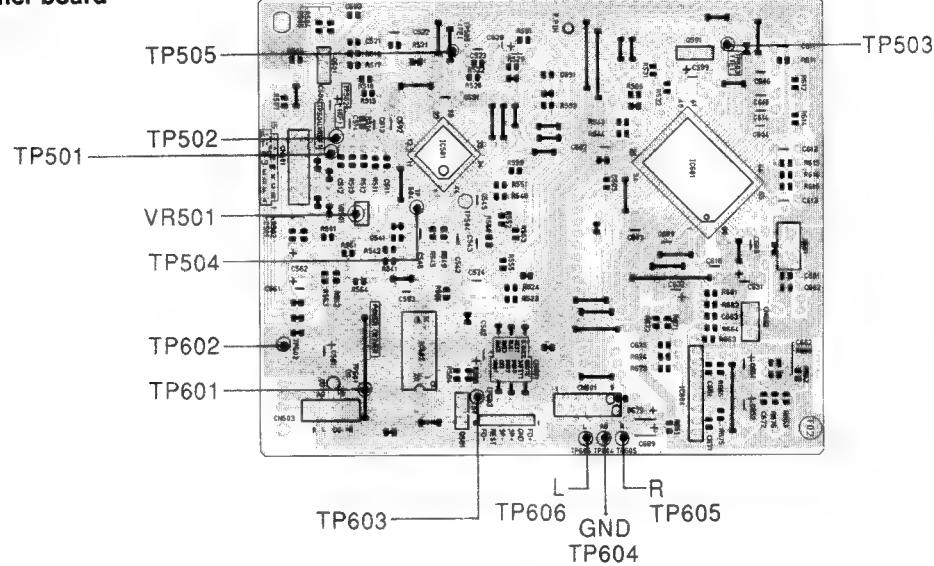
1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input side in series.
2. Set output level of the IF sweeper as minimum as adjustable.
3. RF Alignment order
Procedure of the steps of tracking should be kept.

■ Arrangement of Adjusting & Test Points

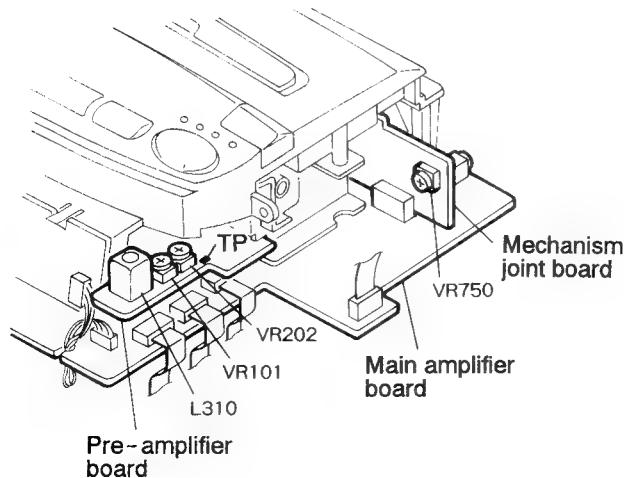
● Cassette mechanism



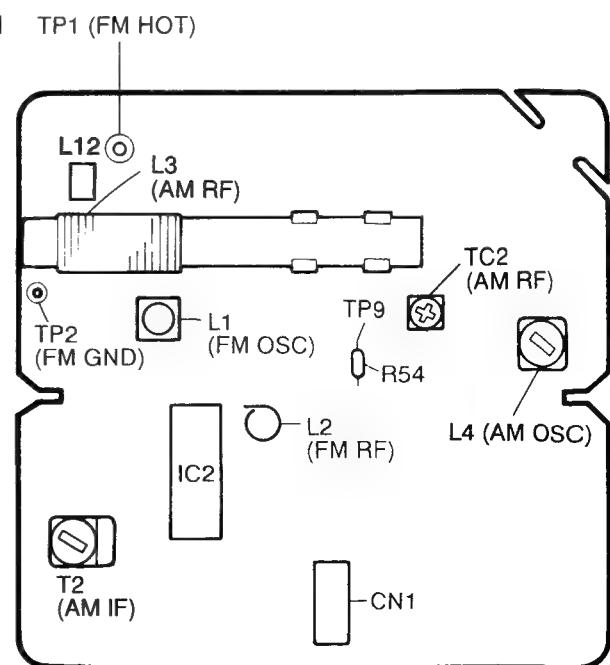
● CD amplifier board



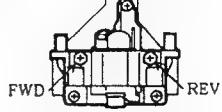
● Pre & main amplifier board



● Tuner board



■ Amp. Section/Cassette Mechanism Section

Test Tape	Conditions	Adjustment and Confirmation Methods	Stand. values	Adjust
Adjustment of head angle	Test tape :VTT703 (10 kHz) Measurement/ Metering output terminal :Speaker terminals, L and R speakers (Load resistance :4 Ω)	1. Play the test tape VTT703 (10 kHz). 2. With the head azimuth adjusting screw, adjust the replay output to within 2 dB from the peak point and the phase difference to minimum. After adjustment, lock the head azimuth adjusting screw by as much as half turn. 3. In case the measurement values deviate from the standard values, perform fine adjustment with the head azimuth adjusting screw.	Within 2 dB from the peak point and minimum phase difference	Perform this adjustment whenever the head has been changed. 
Adjustment of tape speed and check of wow flatter	Test tape :VTT712 (3 kHz) Measurement output terminal :Speaker terminal	1. With VR750, adjust the tape speed by playing the test tape VTT712 (3 kHz) after it has been wended so that the frequency counter reading is $3,010 \pm 10$ Hz, and confirm that the frequency at high speed is within 5,000~5,800 Hz. 2. Confirm that the wow flatter is not higher than 0.28% (JIS WTD).	Tape speed :Within 3,010 ± 10 Hz Wow flatter :0.28% or more (JIS WTD)	VR750
Confirmation of replaying output level	Test tape :VTT724 (1 kHz) Measurement output terminal :Speaker terminal	While replaying the test tape VTT724, confirm that the speaker terminal level when the volume is positioned at 29~30 becomes $0 \text{ dB} \pm 3 \text{ dB}$.	$0 \text{ dB} \pm 3 \text{ dB}$	
Confirmation of replaying frequency characteristics	Test tape :VTT739 (63 Hz, 1 and 10 kHz) Measurement output terminal :Speaker terminal	The level deviation of the frequency level when the test tape VTT739 (63 Hz, 1 kHz and 10 kHz) is replayed should be within -1 ± 4 dB at 63 Hz and $+2 \pm 4$ dB at 10 kHz with reference to 1 kHz.	1k/63Hz : -1 ± 4 dB 1k/10kHz : $+2 \pm 4$ dB	
Adjustment of bias oscillator frequency	Test tape :AC-225 Measurement output terminal :Secondary circuit of oscillator coil (erasing)	1. Connect the frequency counter [(insert a 470 k Ω resistor in series) or TP (any serial resistor is not needed)] to the secondary terminal of the eraser L310. 2. After loading the test tape (AC-225) into the deck, keep the tape under the [RECORD] and [PAUSE] conditions. 3. With L310, adjust the reading of frequency counter to $101.1 \text{ kHz} \pm 0.1 \text{ kHz}$ when the tape is recorded.	: $101.1 \text{ kHz} \pm 0.1 \text{ kHz}$	L310
Adjustment of recording and replaying frequency characteristics	Reference frequency :1.25 kHz and 10 kHz (REF. level: -20 dB) Measurement input terminal:[AUX IN] terminal Measurement output terminal :Speaker terminal Test tape :AC-225	1. While repeatedly applying reference frequency signals of 1 kHz and 10 kHz to the [AUX IN] terminal, record the signals in a normal tape. 2. With VR101 and VR202, adjust the deviation between the 1 kHz and 10 kHz speaker terminal outputs to become $+2 \pm 1$ dB when the recorded section has been replayed. 3. Similarly in the cases of the chromium tape AC514 and metal tape, confirm that the deviations are within $+2 \pm 3$ dB and $+2.5 \pm 3$ dB, respectively.	Normal tape : $+2 \text{ dB} \pm 1 \text{ dB}$ R: VR202	L: VR101
Confirmation of recording and replaying sensitivity	Test tape : AC-225 Input terminal :[AUX IN] terminal Output terminal :Speaker terminal Reference frequency :400 Hz (REF. level: -20 dB)	1. While inputting a 1 kHz reference frequency level of -20 dB to the [AUX IN] terminal, record and replay the frequency level in the tape AC-225, and confirm that the recording and replaying levels are within 0.5 ± 3 dB with reference to the replaying level of VTT724.	$0 \pm 1 \text{ dB}$	L: VR102 R: VR202

Test Tape	Conditions	Adjustment and Confirmation Methods	Stand. values	Adjust
Recording and Replaying Distortion Rates	Test tape :AC-225 Measurement output terminal :Speaker terminal Measurement input terminal :[AUX IN] terminal	While applying a 1 kHz reference frequency level to the [AUX IN] terminal, confirm that the value of distortion rates indicated by a distortion meter during recording and replaying are within 5%.	Distortion rate :Within 5%	
Confirmation of Recording and Replaying S/N Ratios	Test tape :AC-224 Measurement output terminal :Speaker terminal Measurement input terminal :[AUX IN] terminal	1. While applying a 1 kHz reference frequency level to the [AUX IN] terminal, pick up the input signal halfway during recording, and perform signal-free recording. 2. Confirm that the difference between the replaying level of the recorded section and that of the signal-free section is 36 dB or more.	Replaying level difference :36 dB or over	

■ Adjustment of Tuner

★ There is no need to adjust the FM and AM IF circuits.

Test Tape	Conditions	Adjustment and Confirmation Methods	Stand. values	Adjust
AM tracking adjustment	Measurement output terminal CN1: AM output terminal TP9: Measurement input terminal: Standard loop antenna	1. It should be possible to receive 531 kHz (signal). 2. In case the voltage at TP9 exceeds 5 V when receiving 1,629 kHz, adjust the voltage to $5.0 \text{ V} \pm 0.1 \text{ V}$ with L4. 3. While receiving 603 kHz, adjust the voltage at CN1 to become maximum with L3. 4. While receiving 1,404 kHz, adjust the voltage at CN1 to become maximum with TC2. 5. By repeating the adjustment steps in Items (3) and (4) above, confirm that there is not any change in the voltage.	$5.0 \pm 0.1 \text{V}$ Output :Maximum Output :Maximum	L4 L3 TC2

■ CD section

Items	Conditions	Adjustment and Confirmation	Standard Value	Adjusting
1. Checking jitter	Measurement equipment: Oscilloscope (jitter meter) Test points: TP601: ground side TP602: hot side	Connect the jitter meter between the TP601 and TP602, and check that the jitter meter reads 26 nsec. or less when playing back the test disc "Track 1".	26 nsec. or less	
2. Checking the RF level (eye pattern)	Measurement equipment: Oscilloscope TP601: ground side TP602: hot side	Connect the oscilloscope between the TP1 and TP2, and check that the peak-to-peak value of the oscilloscope waveform reads within $1.1 \text{ V} \pm 0.2 \text{ V}$ when playing back the test disc "Track 1". Eye pattern waveform	$1.1 \text{ V} \pm 0.2 \text{ V}$	
3. Checking the outermost area	CTC-1000	Select "Track 28" on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error.		
4. Checking the pickup movement from the outer area to the inner area		Allow the pickup to skip over from the disc's outermost area to "Track 1" and check that it takes within 10 seconds for the player to enter Play mode.	Within 10 seconds	

7. Troubleshooting

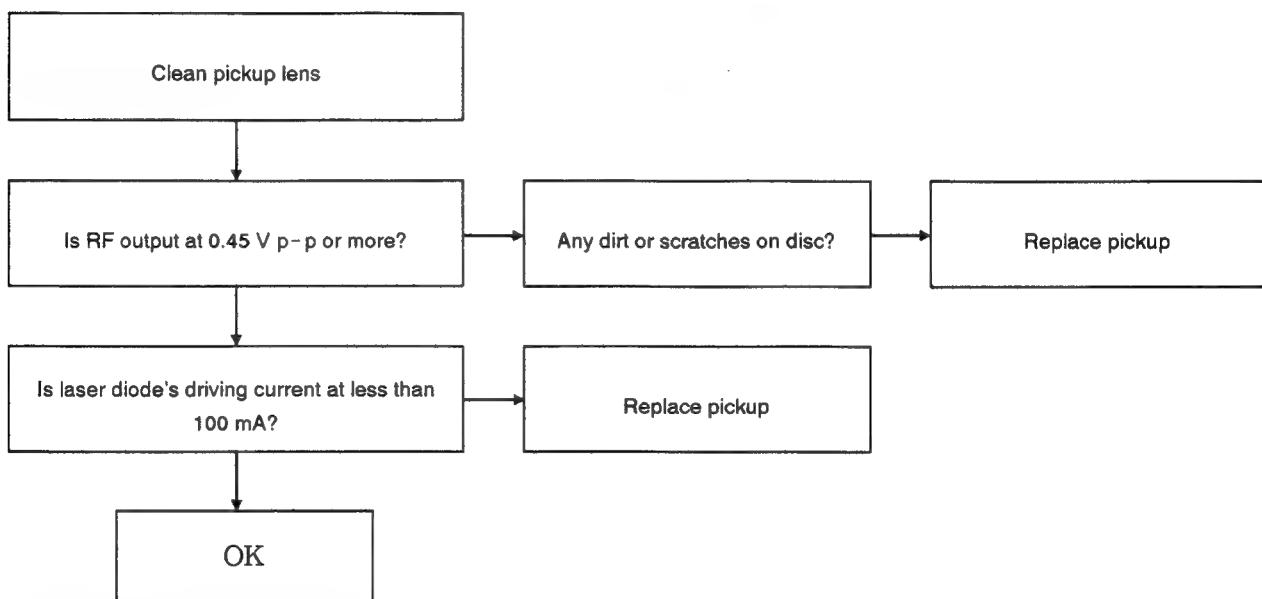
■ Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickup lens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between IC601 ⑦ and ⑩(GND)) lowers.
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R614 at $10\ \Omega$.)

Following the flow chart shown below, check the service life.



How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R614($10\ \Omega$), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

$$= \text{Voltage level at both ends of R614 (V)} / 10 (\Omega)$$

When voltage level is at 1.0 V:

$$1.0\ \text{V} / 10\ \Omega = 0.1\ \text{A} = 100\ \text{mA}$$

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

■ HOW TO OPERATE THE CD SELF-DIAGNOSIS FUNCTION

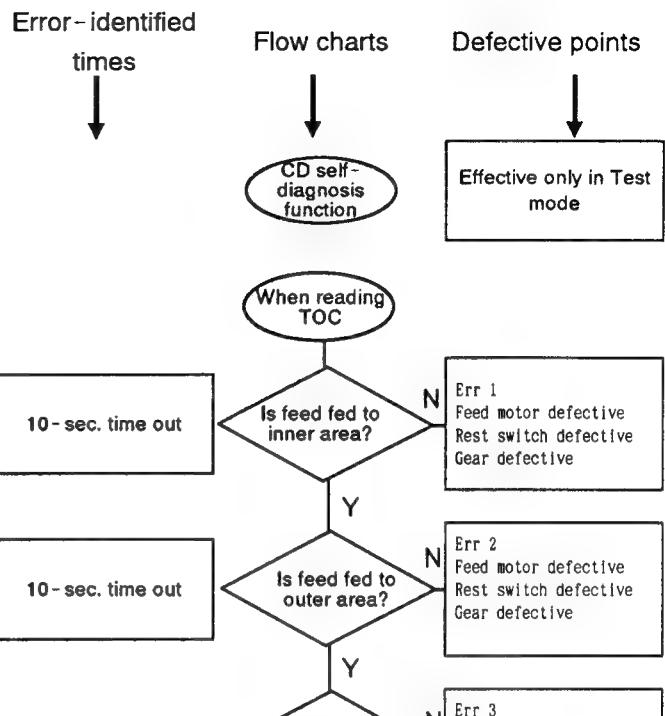
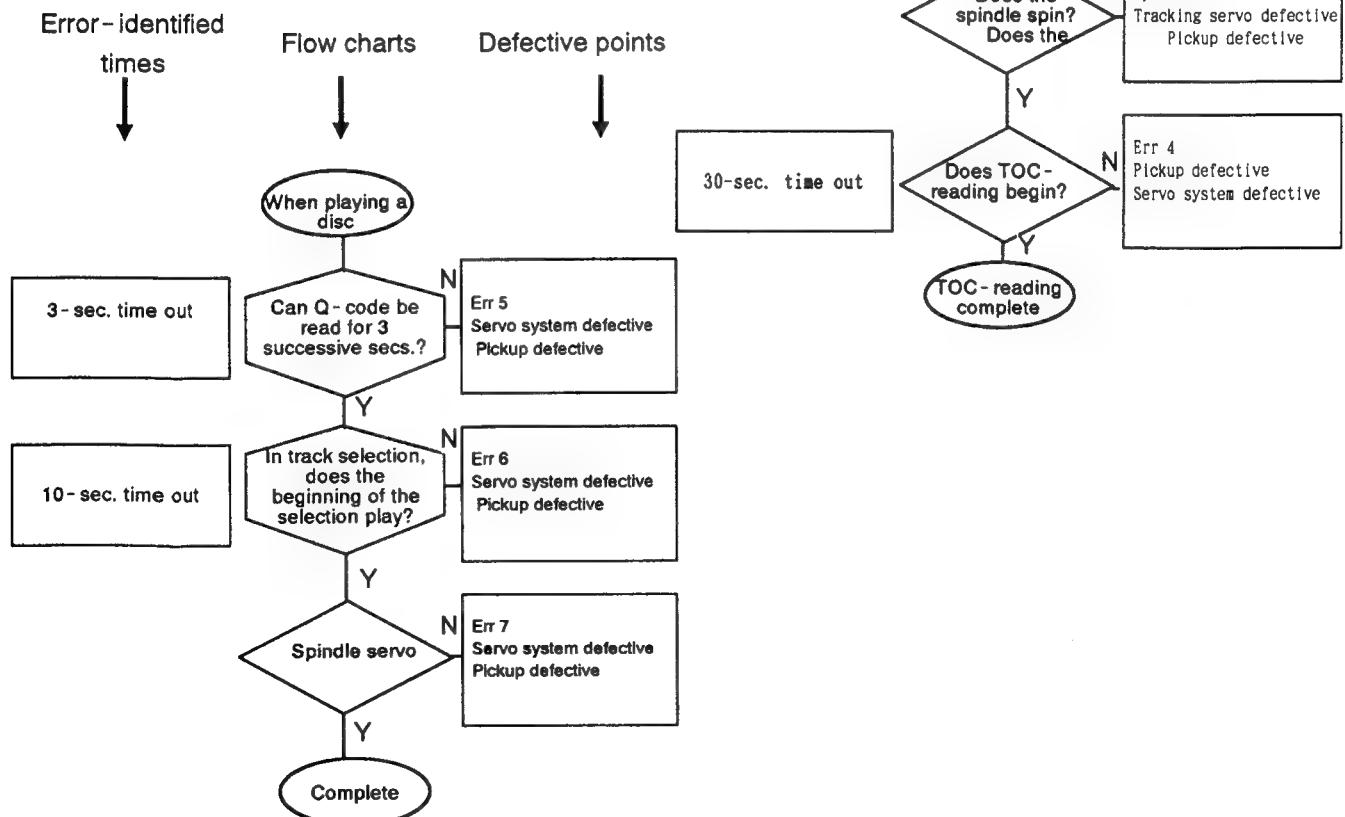
The CD Self-diagnosis Function

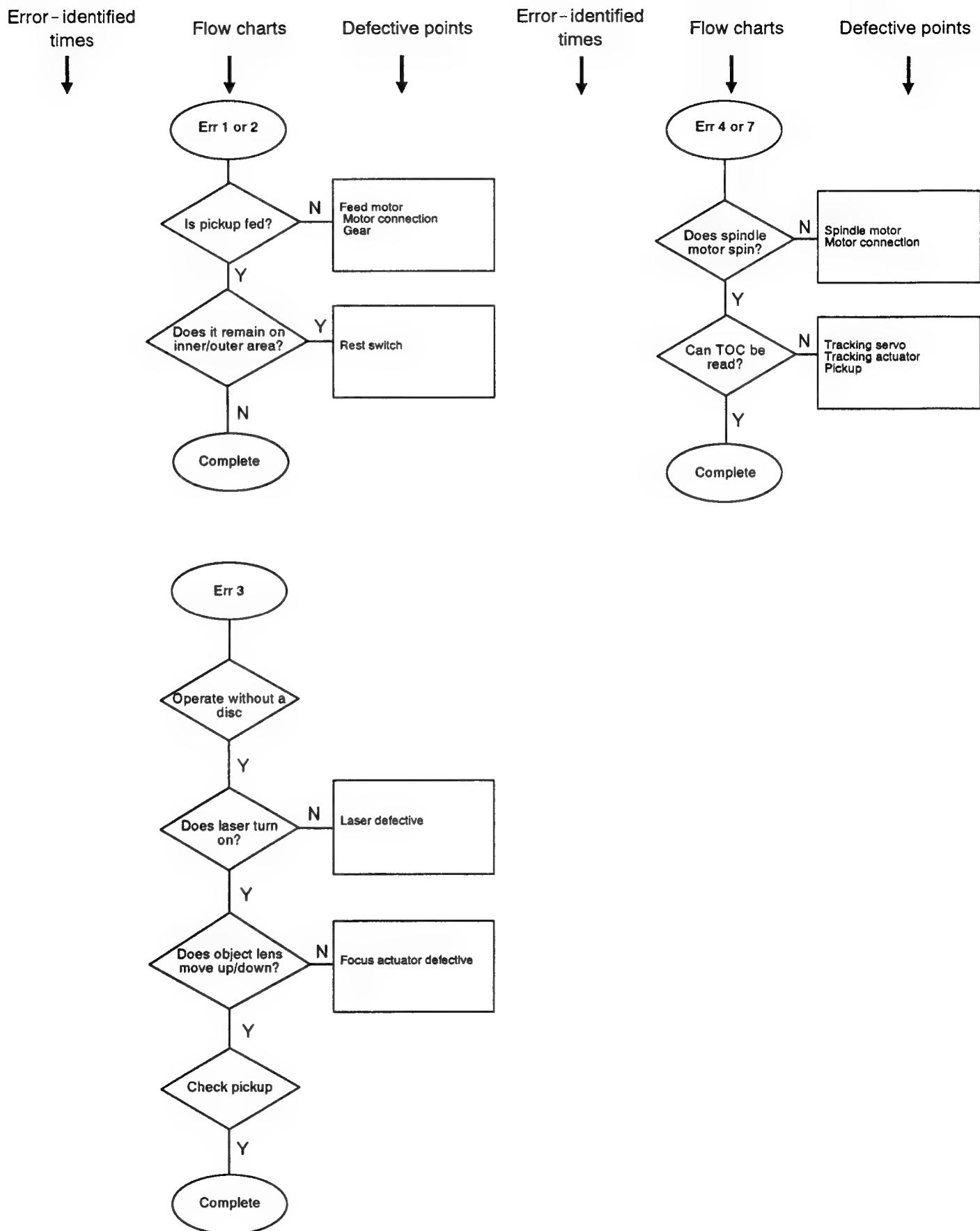
If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

1. Operation

- ① Press the three [■], [+10] and [POWER] buttons on the remote control to enter the Test mode. (Then the illuminating portions of the LCD all light up together. This indicates that the system has entered the Test mode.)
- ② Play a CD. If the operation is defective in any way, an error code should appear on the LCD.
- ③ Identify the point of malfunction in accordance with the error code displayed.

2. Error codes & defective points





General descriptions of TOC (Table of Contents) readings

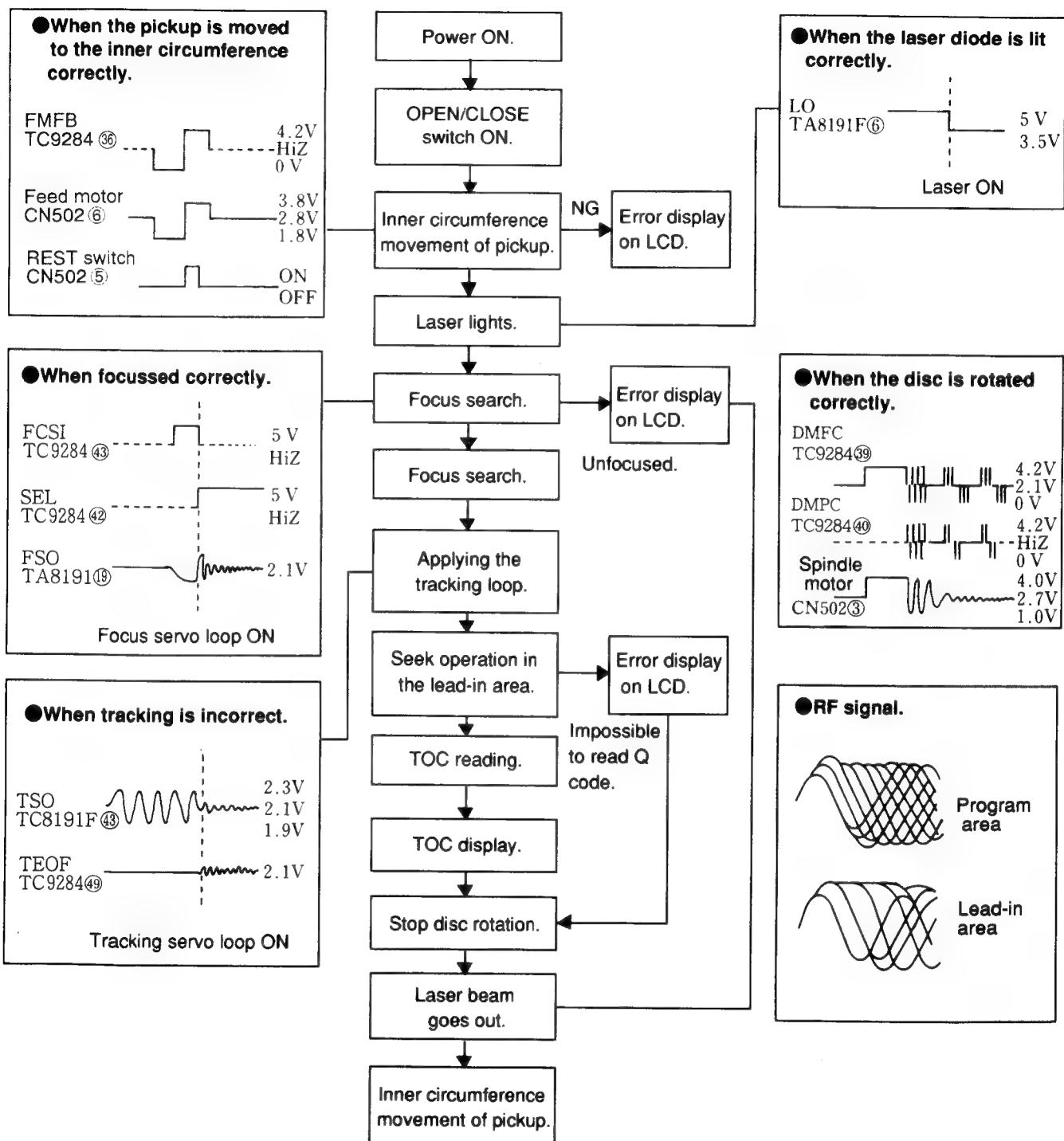


Fig. 7-1

■General section

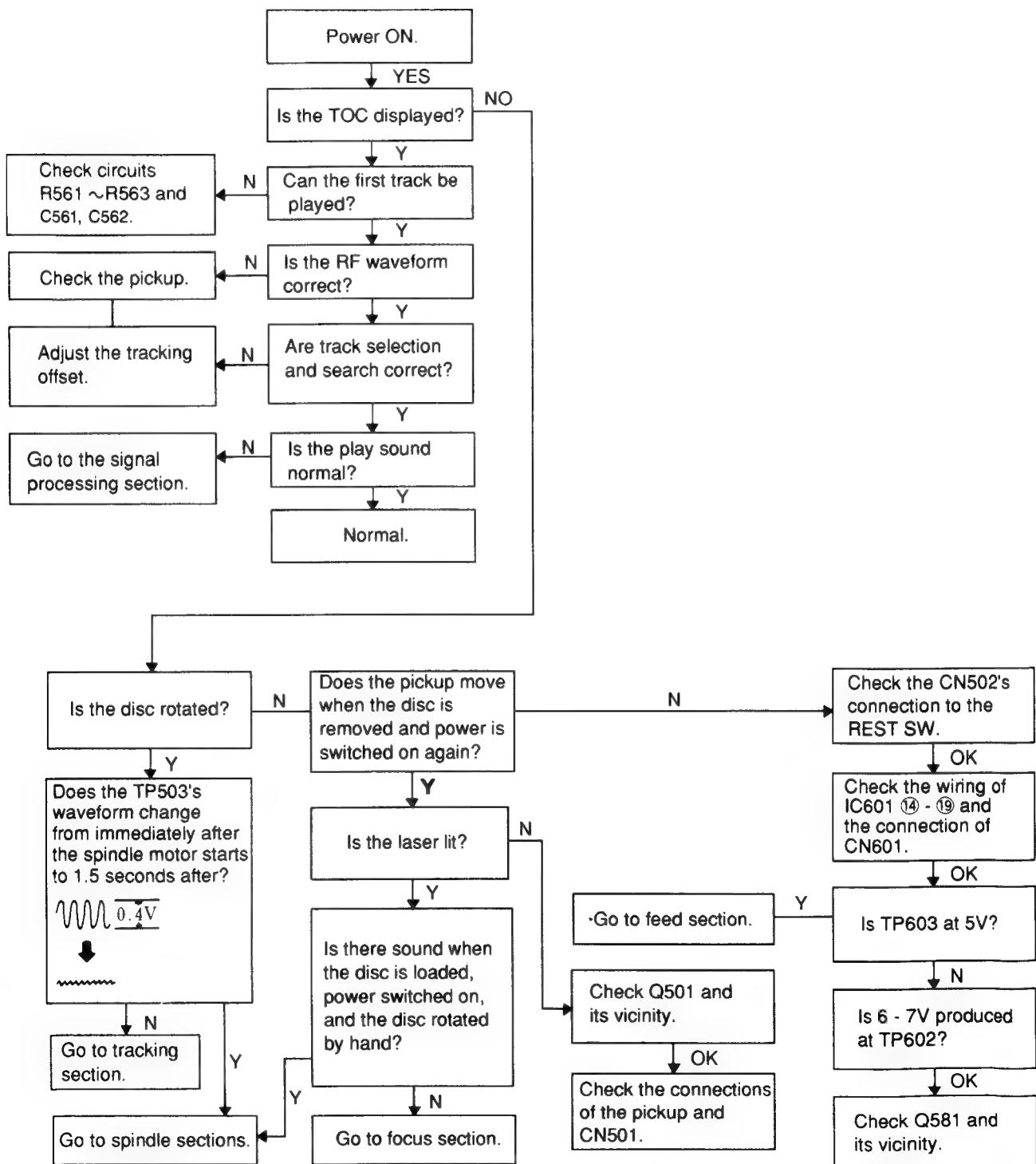


Fig. 7-2

■ Feed section

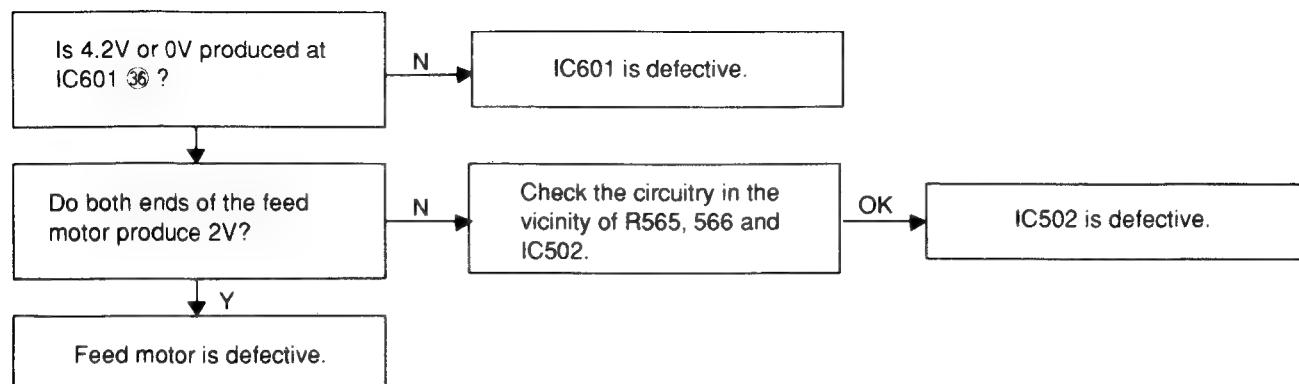


Fig. 7-3

■ Focus section

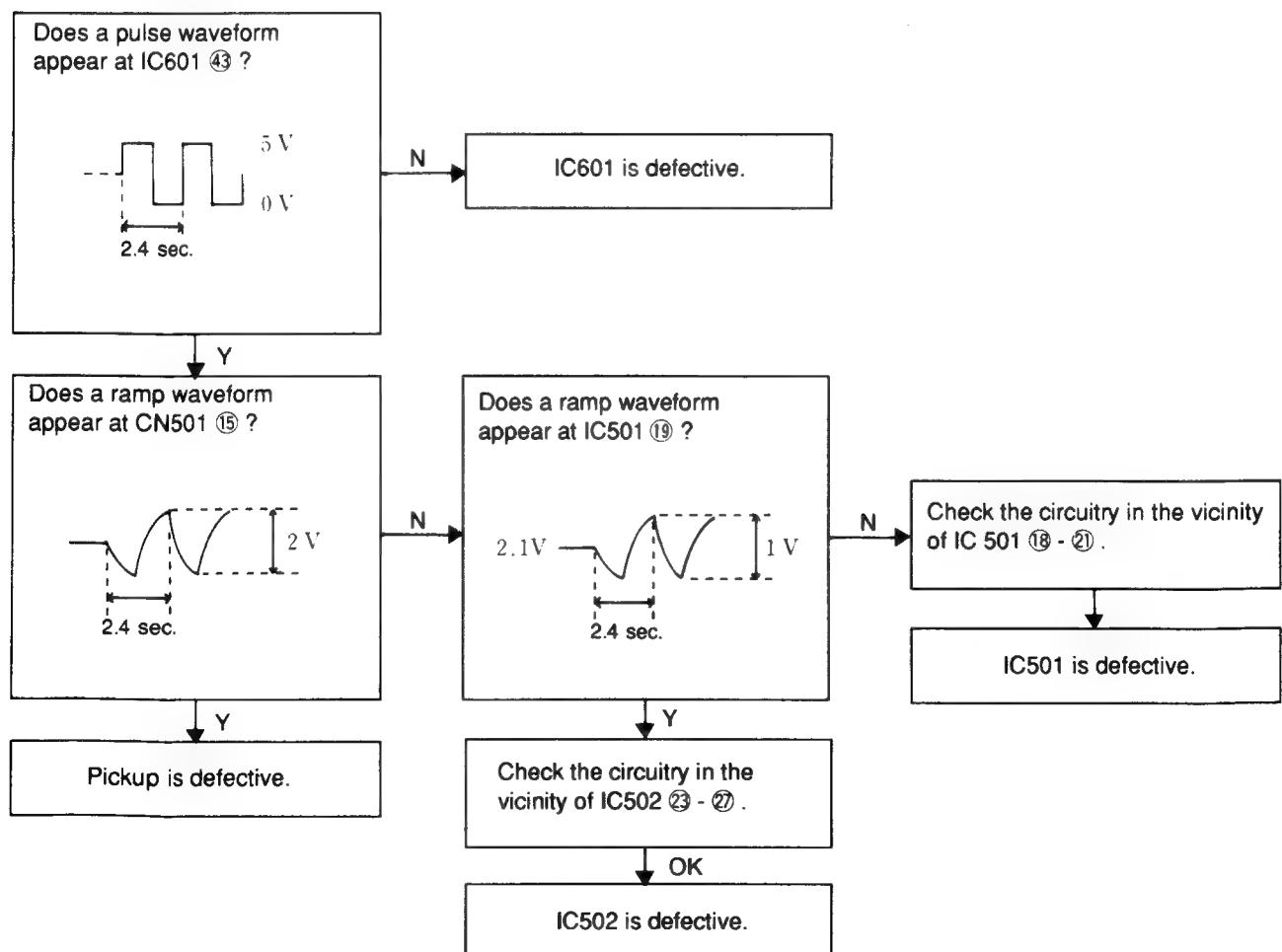


Fig. 7-4

■ Spindle motor section

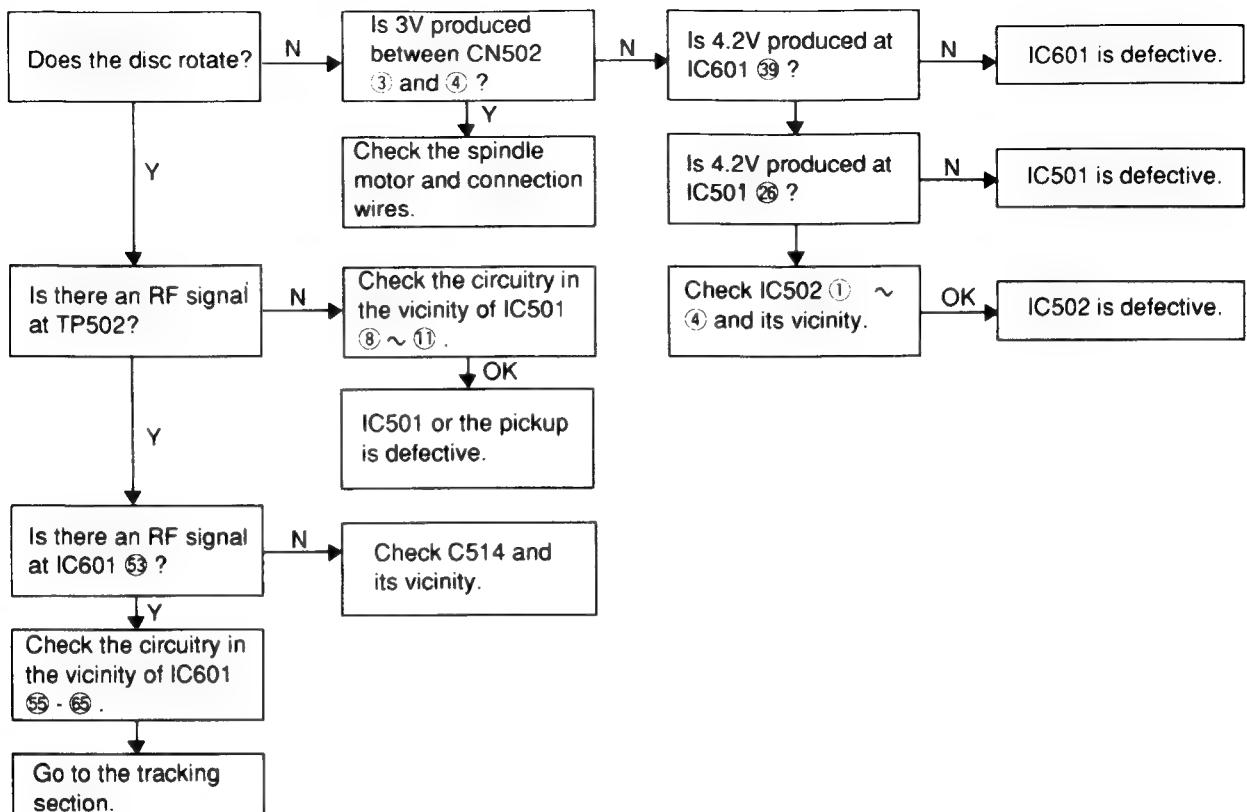


Fig. 7-5

■ Signal processing section

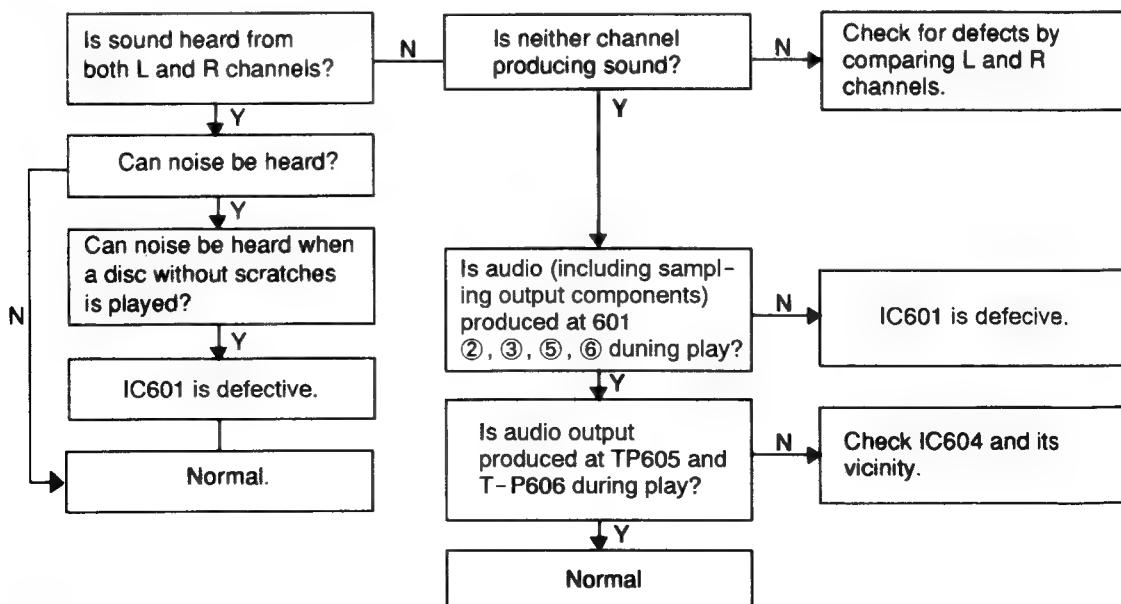


Fig. 7-6

■ Tracking section

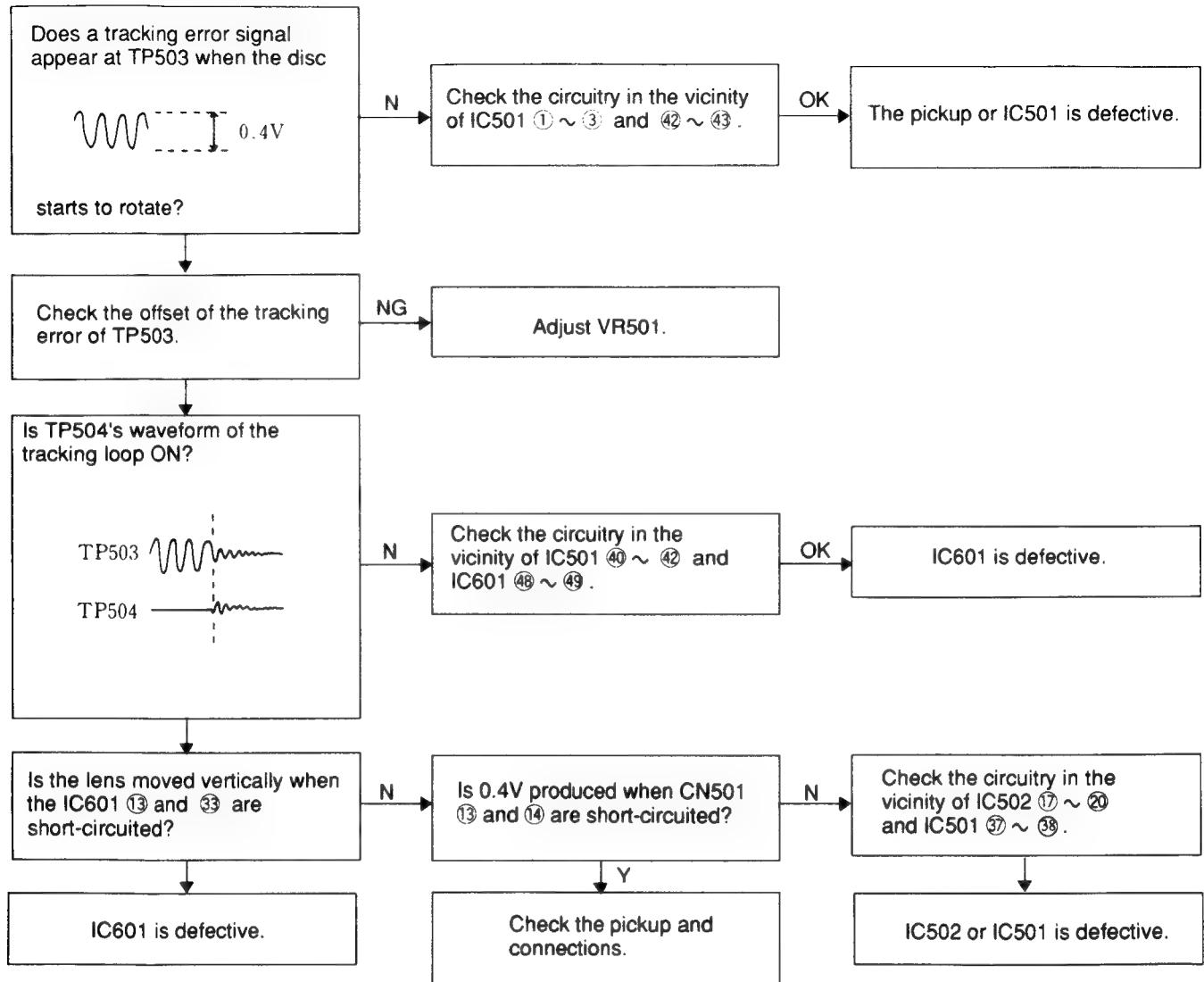


Fig. 7-7

■ Self – Diagnosis Function of CD

1. Purpose

This function is designed to display an error to readily clarify the cause of such an error should any trouble occur in CD.

2. How to Use the Function

- (1) Turn the microcomputer action of the set to [TEST] mode.
- (2) Press **POWER** + **CLEAR** on the remote controller at the same time. Confirm that all of the LCDs have been turned on when set to the [TEST] mode subsequent to the step in Item (2).
- (3) When the CD trouble has occurred after starting CD, an error code will be displayed on the display section of LCD, etc.

3. Error code and location in trouble

(See Figs. 7 – 8~12)

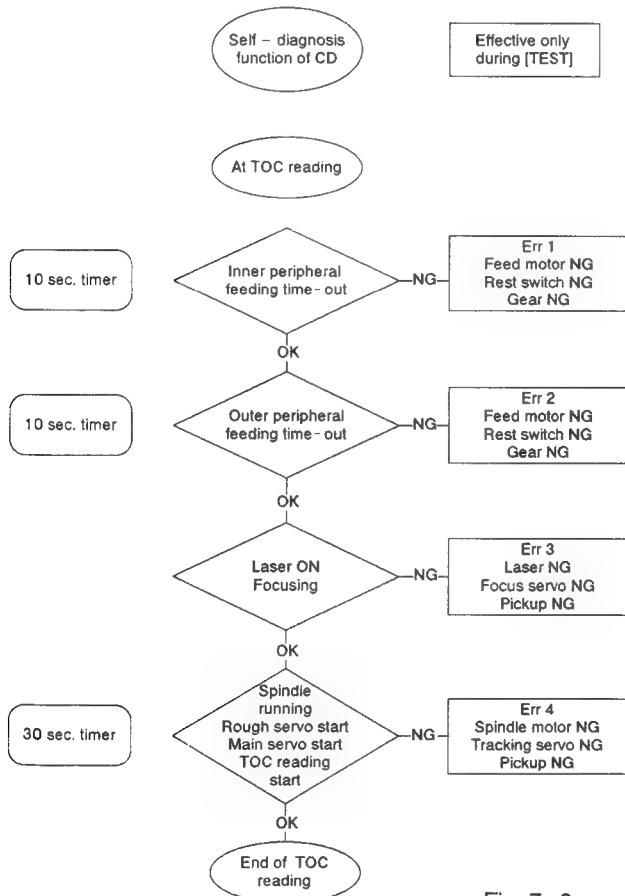


Fig. 7-8

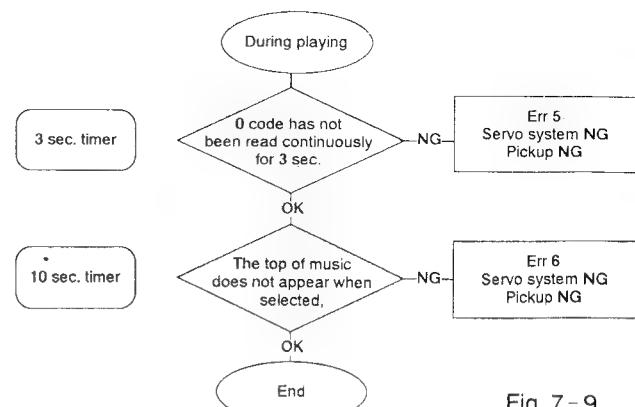


Fig. 7-9

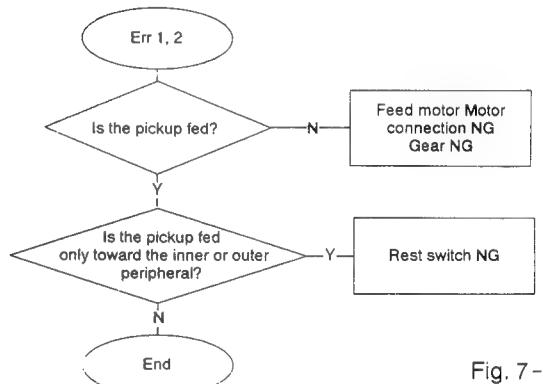


Fig. 7-10

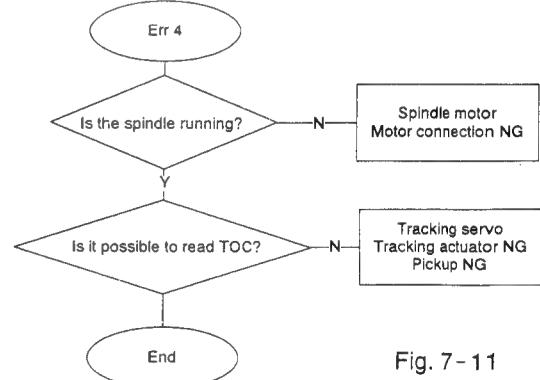


Fig. 7-11

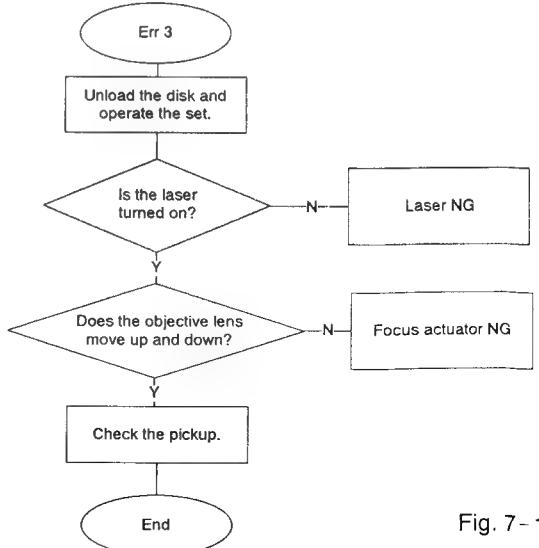


Fig. 7-12

8. Outline of Main IC

■ IC3 (LC72136) PLL

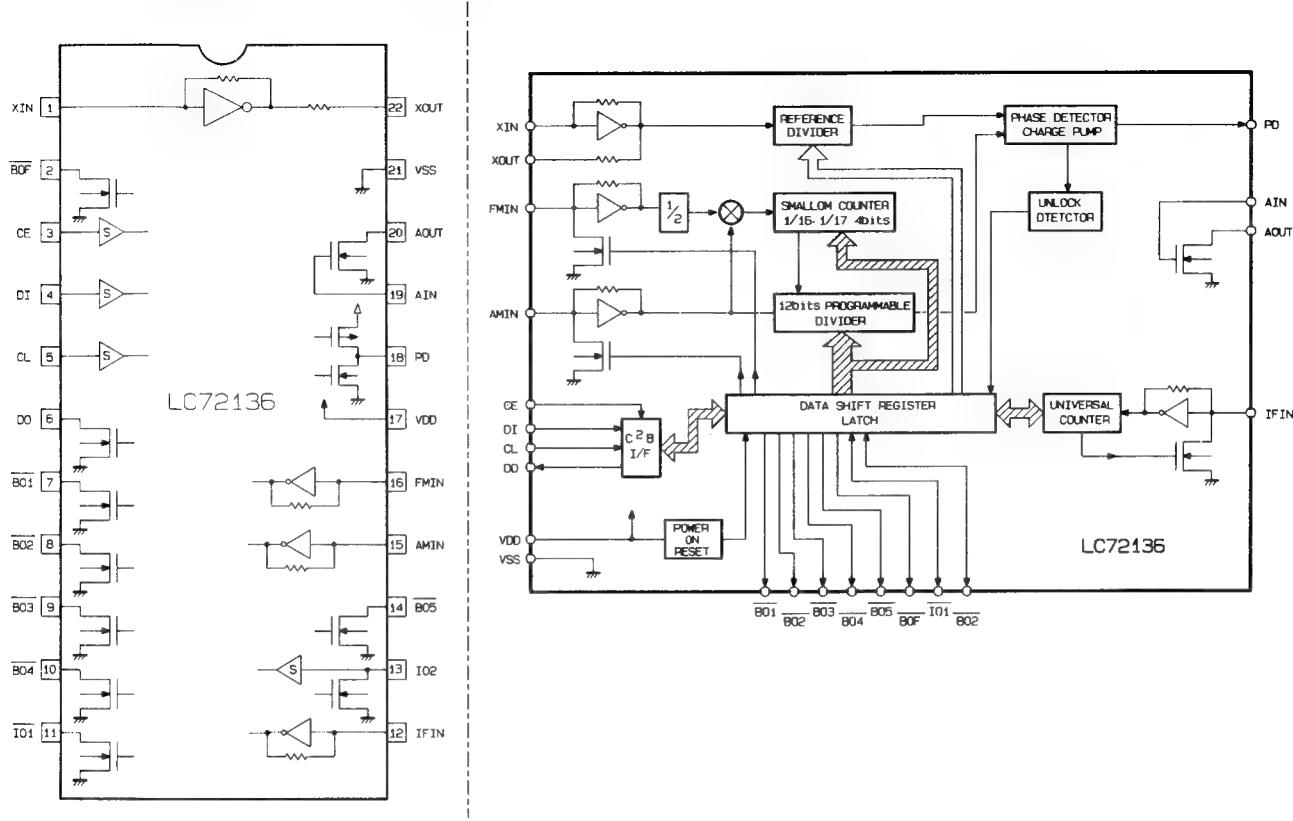


Fig. 8-1

■ IC301 (LA4705) POWER AMP

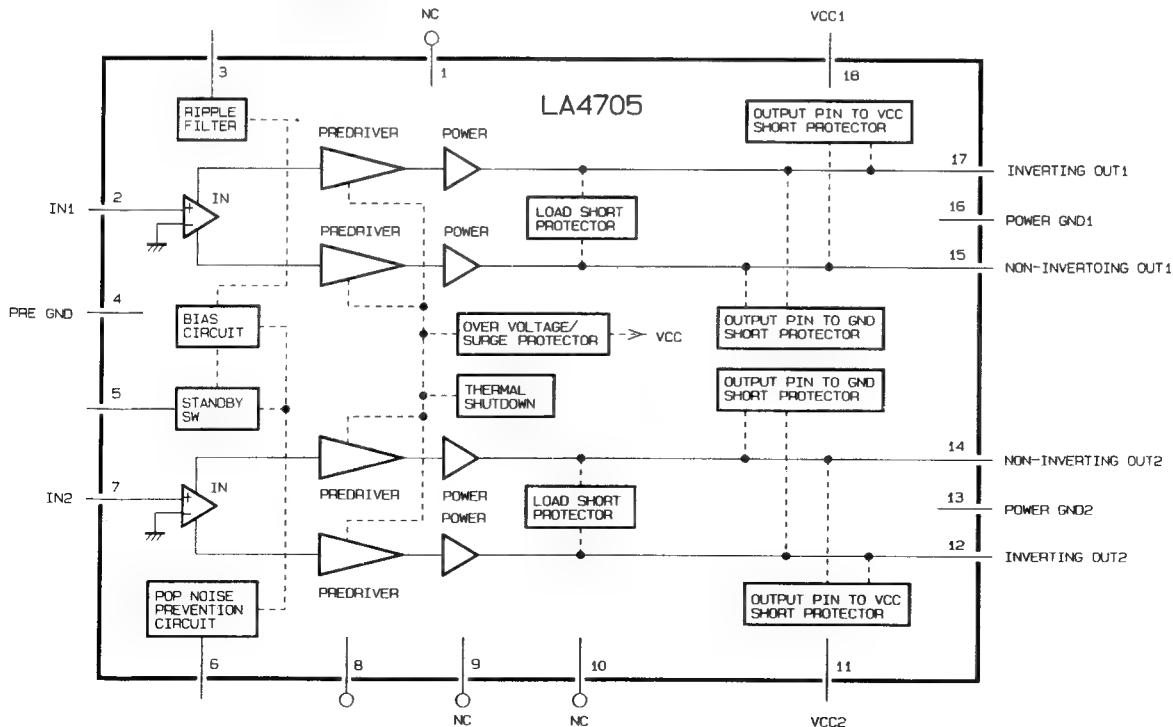


Fig. 8-2

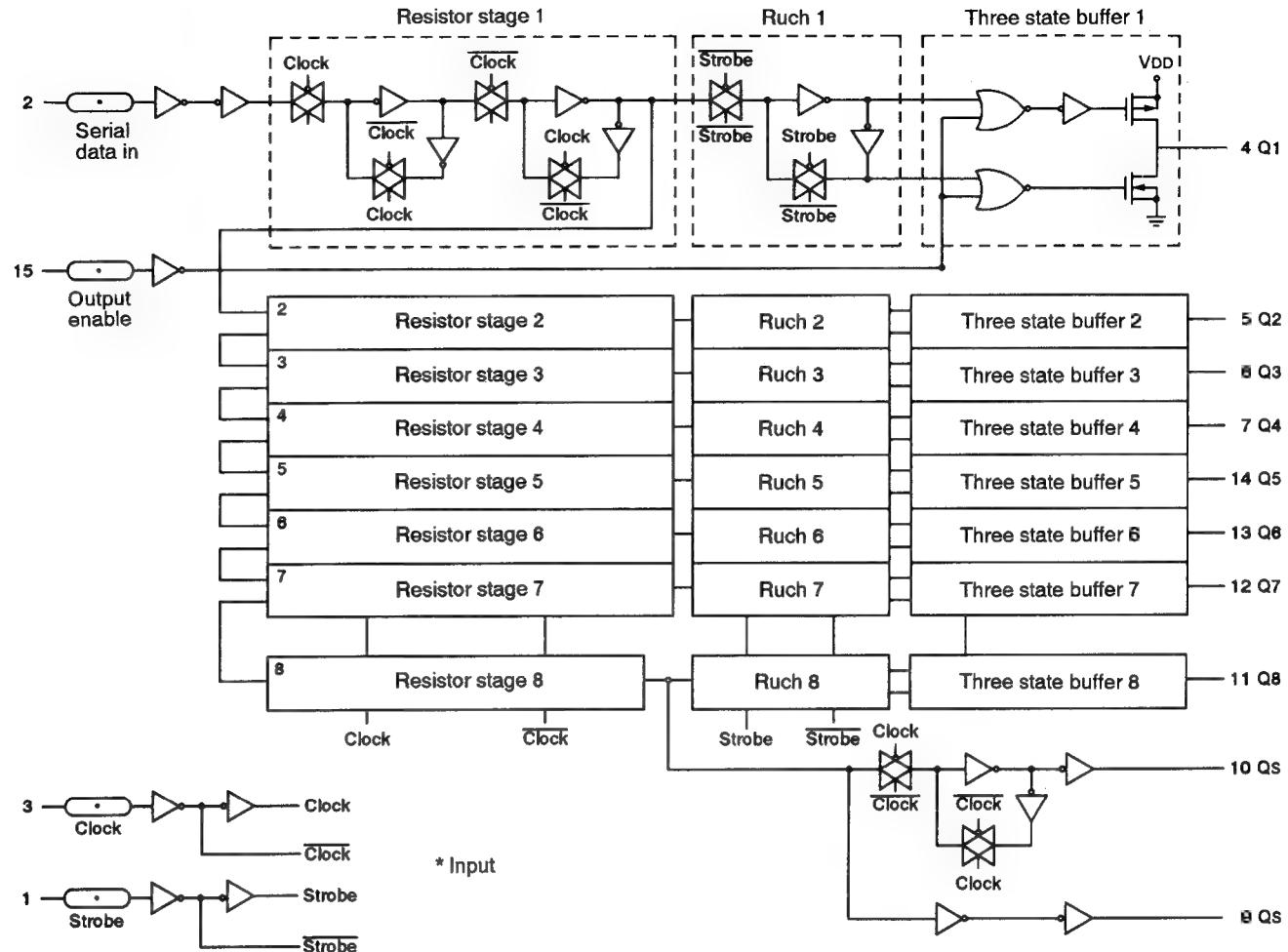
■ IC702 (MC14094BCP) EXPAND

Fig. 8-3

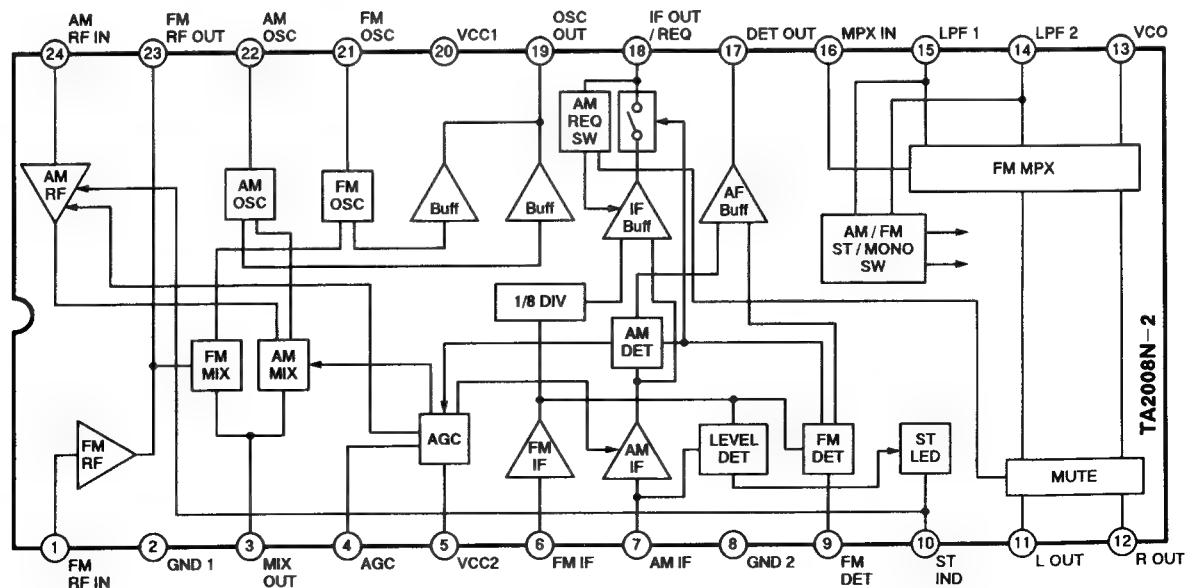
■ IC2 (TA2008N) IF & MPX

Fig. 8-4

■ IC701 : UPD78063GF Terminal's Function Table

Pin No.	Symbol	I/O	Function
1	SDATA	I/O	Sirial data (TUNER PLL, CD TRAVERSE)
2	SCK	0	Sirial clock (TUNER PLL, CD TRAVERSE)
3	B-SOL	0	Deck B: Solenoide control
4	NC	I	Non connection
5	CMOTOR	0	Deck motor contorol
6	IC		Connect to ground
7	X2		Main system clock 4.19MHz
8	X1	I	Main system clock 4.19MHz
9	Vdd		Power source
10	XT1	I	Sub system clock 32.768kHz
11	XT2		Sub system clock 32.768kHz
12	RESET	I	Reset
13	BUP	I	Backup detect
14	BEAT	0	Main clock shifter
15	KILL	0	Subclock power save
16	REM	I	Remote control
17	PBMUTE	0	Deck playback mute
18	F.AUX	0	Function AUX control
19	F.TU	0	Function TUNER control
20	F.CD	0	Function CD control
21	P.OUT	0	Power ON/OFF control
22	M.LEVEL	0	SOUND control
23	VOLCK	0	VOLUME IC control clock
24	VOL DATA	0	VOLUME IC control clock data
25	NC	I	Non connection
26	+BCTL	0	Switched 5V control
27	AVss		AD convertor ground
28	TAPE3	I	Tape detect switch 3
29	TAPE2	I	Tape detect switch 2
30	TAPE1	I	Tape detect switch 1
31	9VSAFE	I	Monitor for 9V avnormal power voltage
32	KEY 1	I	Set key input 1
33	KEY 3	I	Set key input 3 (Inclued to Version select)
34	KEY 2	I	Set key input 2
35	CHSAFE	I	Monitor for changer avnormal power voltage
36	AVdd		Power source for AD convertor (Vdd=same)
37	AVref		Reference power voltage for AD convertor
38	STEX	0	Expander rach
39	MSIN	0	Detect for music scan
40	DVss		Ground

Pin No.	Symbol	I/O	Function
41	R/P	0	REC/PLAY Head selector
42	A/B	0	A/B mechanism selector
43	PB70	0	Plasyback equalizer selector
44	RMUTE	0	REC Mute
45	RCro2	0	REC equalizer selector (Croume)
46	RMETAL	0	REC equalizer selector (Metal)
47	RECBIAS	0	REC bias on off
48	BIAS1	0	REC bias frequency shift 1
49	BIAS2	0	REC bias frequency shift 2
50	BIAS3	0	REC bias frequency shift 3
51	COM 0	0	LCD Remote control unit terminal 0
52	COM 1	0	LCD Remote control unit terminal 1
53	COM 2	0	LCD Remote control unit terminal 2
54	COM 3	0	LCD Remote control unit terminal 3
55	BIAS		LCD bias power voltage
56	VLC 0		LCD bias power voltage
57	VLC 1		LCD bias power voltage
58	VLC 2		LCD bias power voltage
59	Vss		Ground
60	SEG0	0	LCD segment 0
61	SEG1	0	LCD segment 1
62	SEG2	0	LCD segment 2
63	SEG3	0	LCD segment 3
64	SEG4	0	LCD segment 4
65	SEG5	0	LCD segment 5
66	SEG6	0	LCD segment 6
67	SEG7	0	LCD segment 7
68	SEG8	0	LCD segment 8
69	SEG9	0	LCD segment 9
70	SEG10	0	LCD segment 10
71	SEG11	0	LCD segment 11
72	SEG12	0	LCD segment 12
73	SEG13	0	LCD segment 13
74	SEG14	0	LCD segment 14
75	SEG15	0	LCD segment 15
76	SEG16	0	LCD segment 16
77	SEG17	0	LCD segment 17
78	SEG18	0	LCD segment 18
79	SEG19	0	LCD segment 19
80	SEG20	0	LCD segment 20

Pin No.	Symbol	I/O	Function
81	SEG21	0	LCD segment 21
82	SEG22	0	LCD segment 22
83	SEG23	0	LCD segment 23
84	CHST	0	Changer mechanism control stlove
85	CHREQ	I	Changer mechanism control request
86	S.CD	I	Monitor for CD unit avnormal power voltage
87	REST	I	CD rest switch
88	BUS3	I/O	CD data bus3
89	BUS2	I/O	CD data bus2
90	BUS1	I/O	CD data bus1
91	BUS0	0	CD data bus0
92	CCE	0	CD data inable
93	BUCK	0	CD data bus clock
94	XRESET	0	CD LSI reset
95	HI.DUB	0	Hight speed dubbing control
96	HALL.A	I	Deck A rotor detect
97	HALL.B	I	Deck B rotor detect
98	SOLA	0	Deck solenoide control
99	TUST	I	Tuner PLL stlove
100	MPX	I	Stereo indicator

9. Analytic Drawing and Parts List

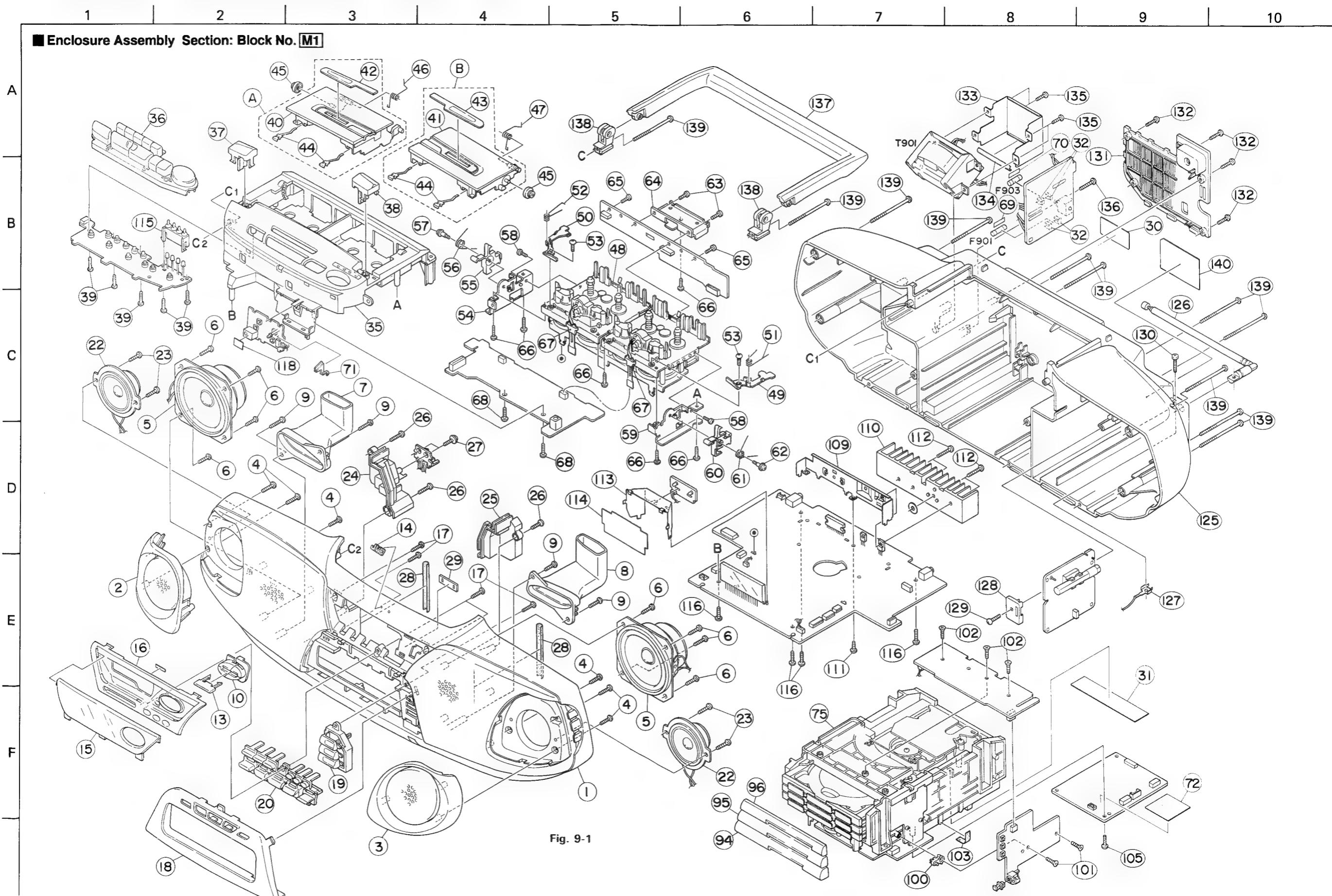


Fig. 9-1

■ Enclosure Assembly Parts List

BLOCK NO. M1MM							
A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCRCX1K-CBA	CASSETTE CASE A	REF. NO. 40, 42, 44	1		
	B	ZCRCX1K-CBB	CASSETTE CASE B	REF. 41, 43, 44	1		
1	VJG1359-00D	*FRONT CABI ASSY	H.F.WELDING		1		
2	VJD3988-00D	SP.RING ASSY(R)			1		
3	VJD3988-00C	SP.RING ASSY(L)			1		
	4	SBSF3010Z	SCREW	FOR SP.RING	6		
	5	VGS1001-028	SPEAKER		2		
	6	SBSF3010Z	SCREW	FOR SPEAKER	8		
	7	VYH3886-001	DUCT		1		
	8	VYH3886-002	DUCT		1		
	9	SBSF3010Z	SCREW	FOR DUCT	4		
	10	VXP3727-00C	F. BUTTON ASS'Y		1		
	13	VJK4460-001	FUNC. LENS		1		
	14	PQ45130-1-1	JVC MARK		1		
	15	VJK2202-002	LCD LENS		1		
	16	VJD2460-007	LENS COVER		1		
	17	SBSF2610Z	SCREW	FOR LENS COVER	3		
		SBSF2610Z	SCREW	FOR CONTROL COV	2		
	18	VJD2457-002	CONTROL COVER		1		
	19	VXP3726-003	CD EJECT BUTTON		1		
	20	VXP3750-00D	CD BUTTON ASS'Y		1		
	22	VGS0701-001	SPEAKER		2		
	23	SBSF3010Z	SCREW	TWEETER	4		
	24	VYH3890-001	CAP(L)	FOR SPEAKER	1		
	25	VYH3890-002	CAP(R)		1		
	26	SBSF3010Z	SCREW	FOR CAP	3		
	27	GBSF3010Z	TAPPING SCREW	FOR SP. CONNECT	2		
	28	VYSA1R4-064	SPACER	FOR SOUND	2		
	29	VYTT681-001	PLATE		1		
	30	E70891-001	CLASS 1 LABEL		1		
	31	E406709-001	LASER CAUTION		1		
	32	VMZ0087-001Z	FUSE CLIP	F903	2		
		VMZ0087-001Z	FUSE CLIP	F901	2		
	35	VJD1200-002	TOP COVER		1		
	36	VXP2106-002	BUTTON		1		
	37	VXP5305-001	EJECT BUTTON		1		
	38	VXP5305-002	EJECT BUTTON		1		
	39	SBSF2610Z	SCREW	FOR BUTT.+ PCB	5		
	40	VJT2333-003	CASSETTE DOOR(L)		1		
	41	VJT2334-003	CASSETTE DOOR(R)		1		
	42	VJT4211-001	DOOR LENS(L)		1		
	43	VJT4211-101	DOOR LENS(R)		1		
	44	VKY4180-001	CASSETTE SPRING		4		
	45	VYH7366-001MM	GEAR		2		
	46	VWK5205-003	DOOR SPRING		1		
	47	VWK5205-004	DOOR SPRING		1		
	48	VDL5194-M001MYP	CASSETTE MECHA		1		
	49	VKL7777-002	EJECT SAFETY(R)		1		
	50	VKL7778-001	EJECT SAFETY(L)		1		
	51	VWK5224-001	TORSION SPRING		1		
	52	VWK5225-001	TORSION SPRING		1		
	53	SBSF3010Z	SCREW	FOR EJECT SAFTY	2		
	54	VYH3887-001	BRACKET(L)		1		
	55	VYH7847-002	EJECT ARM(L)	RC-X1	1		
	56	VWK3006-230	TORSION SPRING		1		

BLOCK NO. M1MM							
A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	57	VKZ4341-004	SPECIAL SCREW		1		
	58	SDST2605Z	SCREW	MECHA BKT (L), (2		
	59	VYH3888-001	BRACKET(R)		1		
	60	VYH7848-002	EJECT ARM(R)	RC-X1	1		
	61	VWK3006-242	TORSION SPRING		1		
	62	VKZ4341-004	SPECIAL SCREW		1		
	63	SDST2605Z	SCREW	MECHA BKT (C)	2		
	64	VYH8014-001	BRACKET(C)		1		
	65	SDST2605Z	SCREW	FOR CONNET. PCB	2		
	66	SBSF3010Z	SCREW	FOR MECHA+TOP	7		
	67	VKS3747-001	H.WIRE HOLDER	FOR HEAD WIRE	2		
	68	SBSF3010Z	SCREW	FOR PRE PCB	2		
	69	VND4003-034	FUSE LABEL	F901	1		
	70	VND4003-050	FUSE LABEL	F903	1		
	71	VYH3897-001	SHIELD		1		
	72	VYH8070-001	LED HOLDER		1		
	75	-----	CHANGER MECHA		1		
	94	VJT3375-101	CD FITTING(A)		1		
	95	VJT3375-102	CD FITTING(B)		1		
	96	VJT3375-103	CD FITTING(C)		1		
	100	VYH8023-001	HOLDER		1		
	101	SSSF3008Z	SCREW		2		
	102	SSSF3008Z	SCREW	FOR CARD WIRE	3		
	103	VYSA1R4-056	SPACER	SUS	1		
	105	SBSF3010Z	SCREW		1		
	109	VYH3891-003	IC HOLDER		1		
	110	VYH3892-001	HEAT SINK		1		
	111	SBST3006Z	SCREW	FOR IC HOLDER	1		
	112	SBST3012Z	SCREW	FOR HEAT SINK	4		
	113	VYH3893-001	LCD HOLDER		1		
	114	VYH7997-001	SHEET		1		
	115	VYH7948-001	LED HOLDER		1		
	116	SBSF3010Z	SCREW	FOR AMP PCB	4		
	118	VYTT680-001	FILTER		1		
	125	VJG1361-004	REAR CABINET	MIPS	1		
	126	VJA3033-00A	ROD ANT ASS'Y		1		
	127	VYH5012-006	TERMINAL LUG		1		
	128	VYH8033-001	TUNER HOLDER		1		
	129	SBSF3010Z	SCREW	FOR TUNER HOLDE	1		
	130	SDSP3012N	SCREW	FOR ROD ANT	1		
	131	VJD2458-003	GRILL	MIPS	1		
	132	SBSF3010Z	SCREW	FOR GRILL	4		
	133	VYH8035-001	TRANS COVER		1		
	135	SBSF3010Z	SCREW	FOR TRANS	4		
	136	SBSF3016Z	SCREW	FOR AC	1		
	137	VJH2014-001	HANDLE	PS	1		
	138	VYH7845-201	HANDLE SUPPORTE		2		
	139	SBSF3050Z	SCREW	FRONT+REAR	11		
	140	VYN5194-005T	NAME PLATE	FOR E/EN	1		
A	F 901	QMF51E2-R40SBS	FUSE	1ST POLAR	1		
A	F 903	QMF51E2-6R3J1	FUSE	2ND	1		
A	T 901	VTP66J2-12J	POWER TRANS	(AMC)	1		

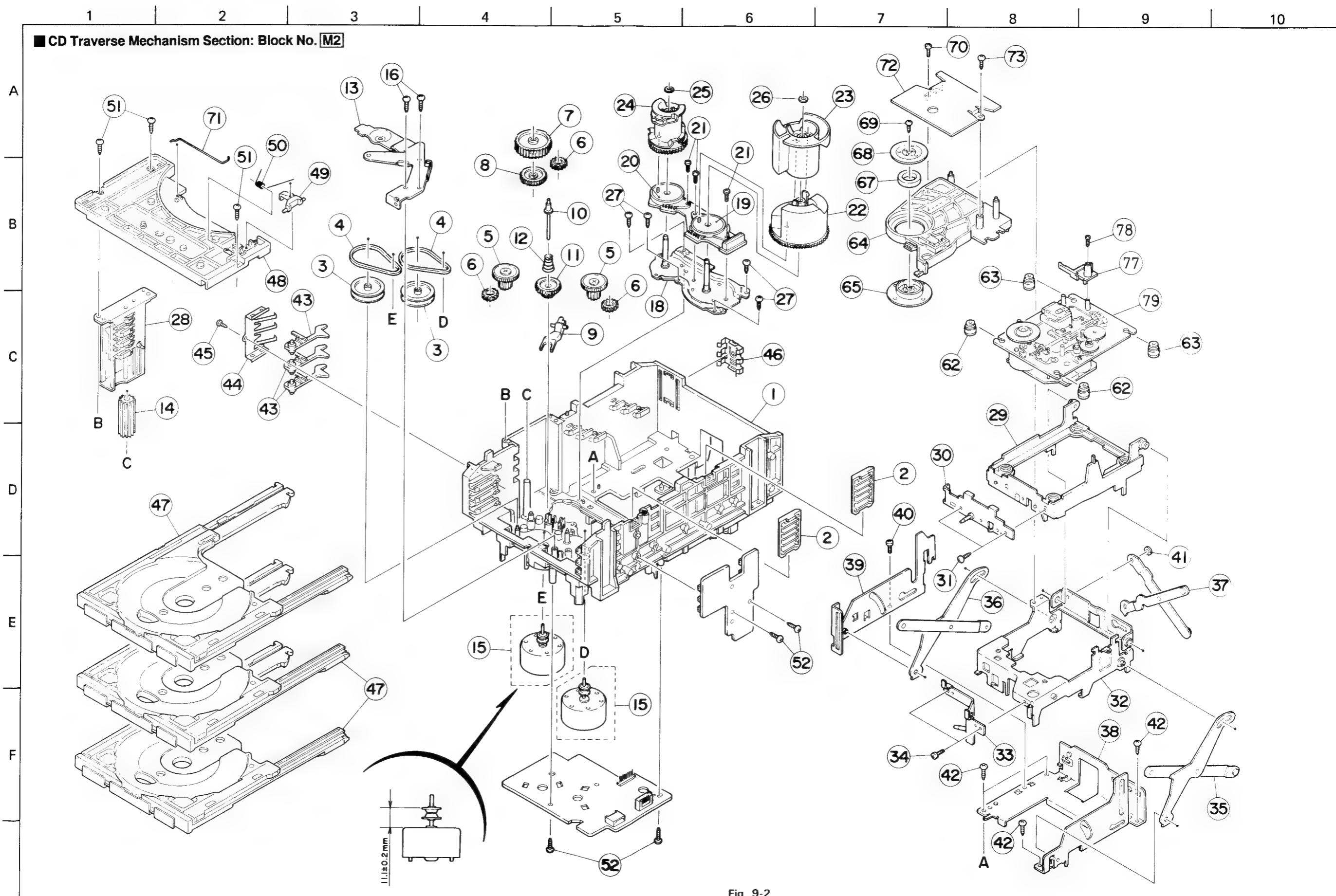


Fig. 9-2

■ CD Traverse Mechanism Parts List

BLOCK NO. M2MM

REF.	PARTS NO.	PARTS NAME	REMARKS	Q'TY	SUFFIX	CLR
1	VKS1144-003	CHASSIS		1		
3	VKS5532-003	PULLEY GEAR		2		
4	VKB3000-164	BELT		2		
5	VKS5505-003	GEAR B		2		
6	VKS5506-002	GEAR C		3		
7	VKS5507-002	CROSS GEAR U		1		
8	VKS5508-002	CROSS GEAR L		1		
9	VKS5510-003	SELECT LEVER		1		
10	VKH5769-001	S.G.SHAFT		1		
11	VKS5511-002	SELECT GEAR		1		
12	VKW5155-003	COMP.SPRING	FOR SELECT GEAR	1		
13	VKM3846-002	GEAR BRACKET		1		
14	VKS5509-002	CYLINDER GEAR		1		
15	MSN-5D257A	D.C.MOTOR		2		
16	DPSP2616Z	SCREW	FOR MOTOR	2		
18	VKM3825-00A	C.G.BASE ASS'Y		1		
19	VKZ3172-00A	CAM SW. R ASS'Y		1		
20	VKZ3173-00A	CAM SW. L ASS'Y		1		
21	SPST2606Z	SCREW	FOR CAM SW.	3		
22	VKS2263-002	CAM R1		1		
23	VKS2264-002	CAM R2		1		
24	VKS2265-002	CAM GEAR L		1		
25	WDL316050	SLIT WASHER	FOR CAM GEAR L	1		
26	WDL316050	SLIT WASHER		1		
27	SBSF2608Z	SCREW	FOR C.GEAR BASE	4		
28	VKS3702-00F	DRIVE UNIT		1		
29	VKS2247-004	MECHA HOLDER A		1		
30	VKL7767-00B	BRACKET ASS'Y		1		
31	SBSF2606Z	SCREW	FOR BRACKET	2		
32	VKM3860-00A	M.HOLDER B AS'Y		1		
33	VKL7802-00C	M.HOLDER C AS'Y		1		
34	SDST2604Z	SCREW	FOR M.HOLDER C	2		
35	VKL7810-00A	LIFTER ASS'Y R		1		
36	VKL7811-00A	LIFTER ASS'Y L		1		
37	VKL7812-00A	LIFTER ASS'Y H		1		
38	VKL2732-002	LIFTER BASE		1		
39	VKM3823-001	LIFTER BRACKET		1		
40	SDST2604Z	SCREW		1		
41	WDL266035-2	SLIT WASHER		1		
42	SBSF2608Z	SCREW		4		
43	VKS5514-002	LOCK LEVER		3		
44	VKY3133-002	RETURN SPRING		1		
45	SBSF2608Z	SCREW	FOR RETURN SP.	1		
46	VKY3134-003	CLICK SPRING		1		
47	VKS2252-00D	TRAY ASS'Y		3		
48	VKS2250-003	TOP BRACKET		1		
49	VKS5515-002	S.TRAY STOPPER		1		
50	VKW5156-004	TORSION SPRING		1		
51	SBSF2608Z	SCREW		3		
52	SBSF2608Z	SCREW		4		
62	FMYH4003-001	INSULATOR		2		
63	FMYH4003-002	INSULATOR		2		
64	VKS3703-00DM	CLAMPER BASE		1		
65	VKS3697-001	CLAMPER		1		
67	VYH7313-003	MAGNET		1		
68	VKL7757-001	YOKE		1		
69	SBSF2606Z	SCREW		1		
70	SPST2606Z	SCREW		1		
71	VKW5187-001	ROD	SUS	1		
72	VYH3897-001	SHIELD PLATE		1		
73	SBSF3010Z	SCREW		1		
77	VKS5544-001	MECHA STOPPER		1		
78	SDSF2006M	SCREW		1		
79	-----	CD MECHA ASSY		1		

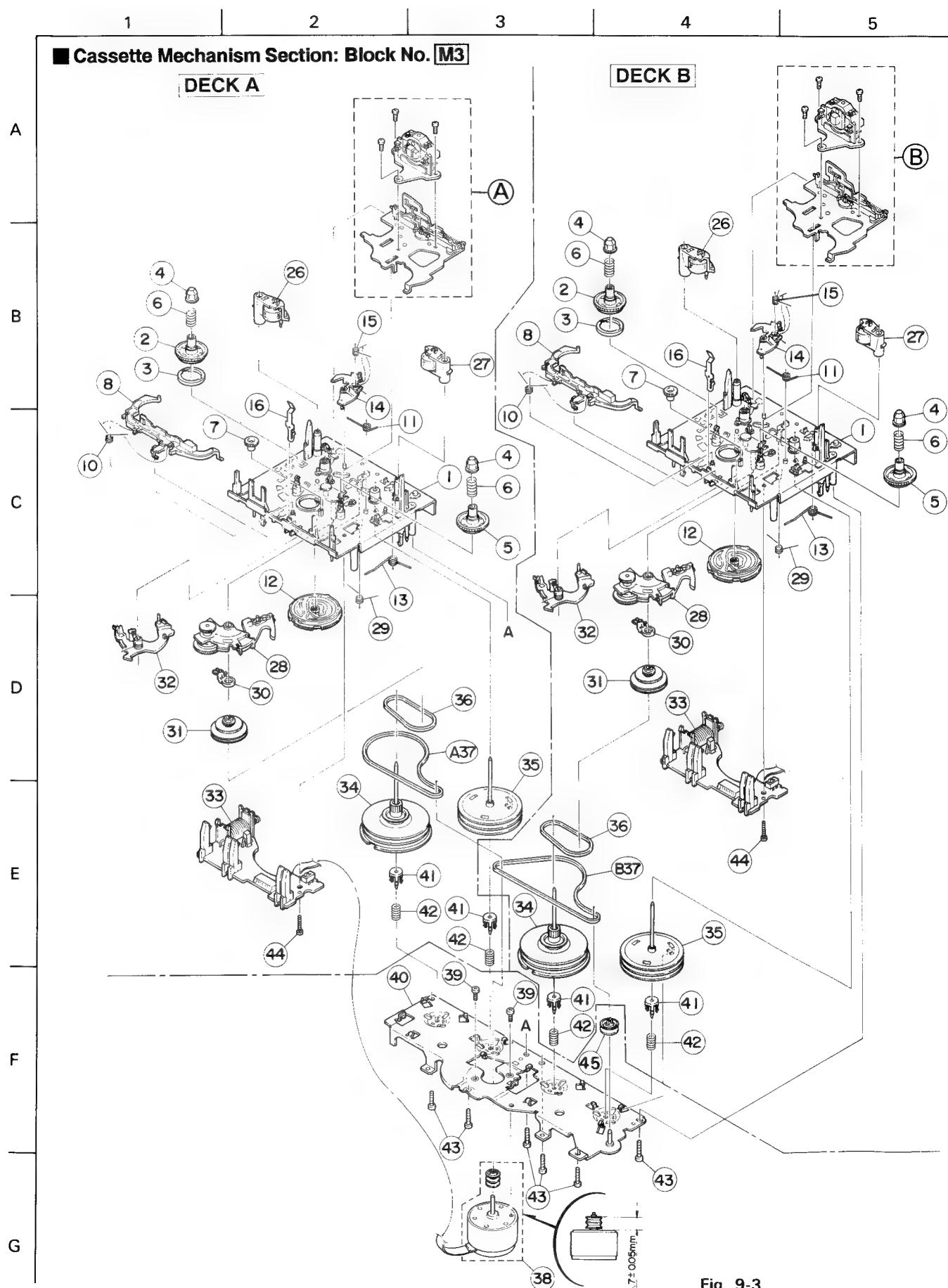


Fig. 9-3

■ Cassette Mechanism Parts List

BLOCK NO. M3MM1111

▲	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	VKM3834-00F	HEAD BLOCK	DECK A	1		
	B	VKM3832-00F	HEAD BLOCK	DECK B	1		
1		VKS1151-00A	CHASSIS B. ASY		1		
2		VKS3707-002	REEL GEAR		1		
3		VKZ4690-002	MAGNET		1		
	4	VKS3708-002	REEL FEATHER		2		
	5	VKS3707-002	REEL GEAR		1		
	6	VKW5162-002	B.T. SPRING		2		
	7	VKS5519-002	IDLER GEAR		1		
	8	VKS2261-002	REEL BRAKE		1		
	10	VKW5178-001	BRAKE SPRING		1		
	11	VKW5202-002	LIFTER SPRING		1		
	12	VKS1150-002	CONTROL CAM		1		
	13	VKW5170-002	CAM SPRING		1		
	14	VKS2255-001	DIR. TRIGGER		1		
	15	VKW5163-001	DIR. SPRING		1		
	16	VKY4670-001	CASSETTE SPRING		1		
	22	VKS2257-002	DIRECTION LEVER		1		
	26	VKP4231-00B	P.ROLLER(R) ASY		1		
	27	VKP4232-00B	P.ROLLER(L) ASY		1		
	28	VKS3714-00B	FR ARM ASY		1		
	29	VKW5173-001	FR SPRING		1		
	30	VKS3719-002	ELEVATOR RING		1		
	31	VKS5523-00C	MAIN PLY ASY		1		
	32	VKS5525-00B	TRIGGER ARM ASY		1		
	33	VGP2401-00A	DC SOLENOID		1		
	34	VKF3200-00A	F.WHEEL (R) ASY		1		
	35	VKF3202-00A	F.WHEEL (L) ASY		1		
	36	VKB3000-167	REEL BELT		1		
	37	VKB3000-162	CAPSTAN BELT	DECK B	1		
		VKB3000-161	CAPSTAN BELT	DECK A	1		
	38	MSI-5U2LWA	D.C.MOTOR ASS'Y		1		
	39	SPSP2603Z	SCREW		2		
	40	VKM3891-00A	F.M.BKT.UNIT		1		
	41	VKS5524-001	THRUST GUIDE		4		
	42	VKW5177-002	THRUST SPRING		4		
	43	SBSF2608Z	SCREW		6		
	44	SDST2612Z	SCREW		1		
	45	VKR4747-001	IDLER PULLEY		1		

1 2 3 4 5

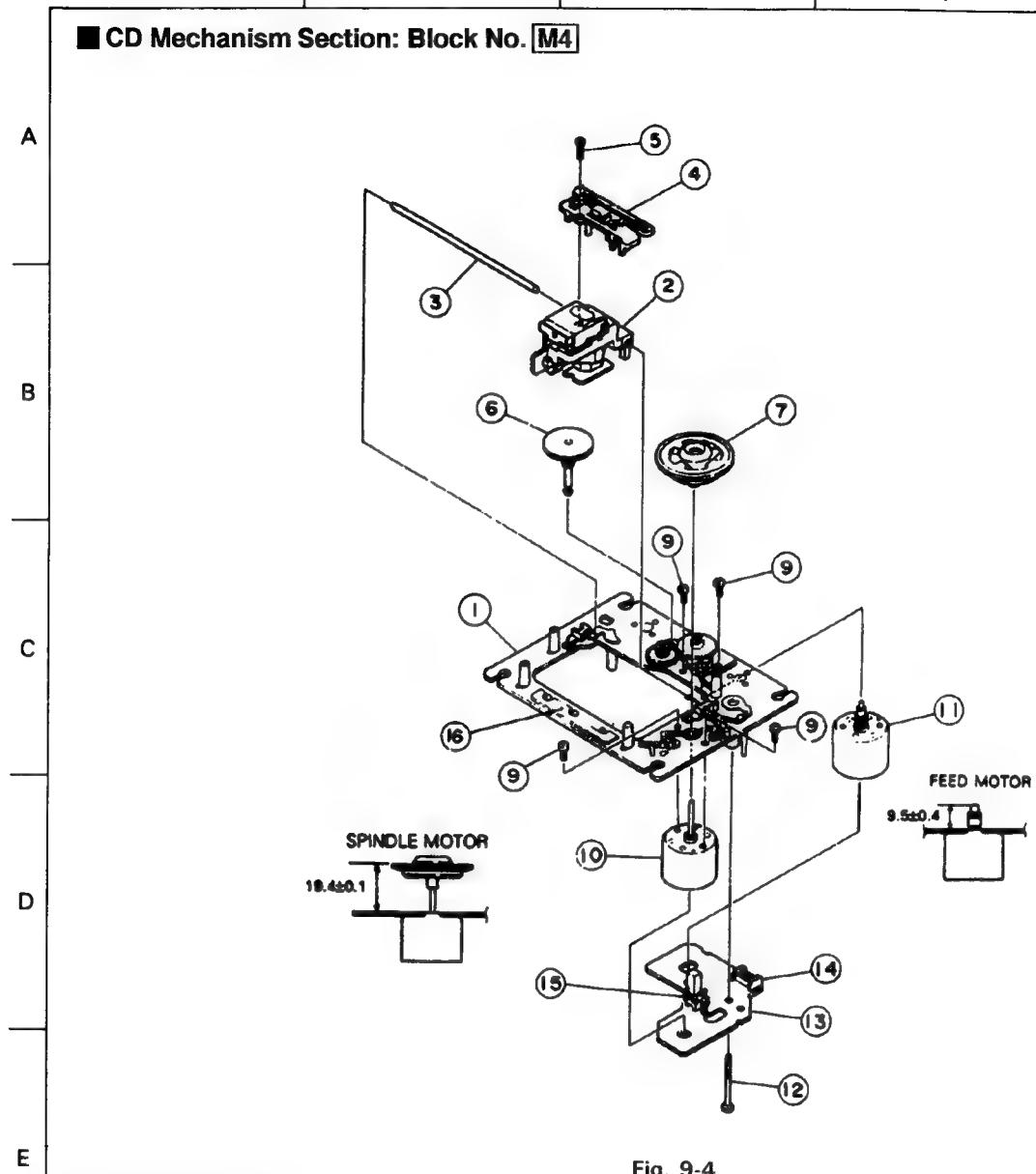


Fig. 9-4

■ CD Mechanism Parts List

BLOCK No. M4 MM

▲	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	MECHA BASE ASSY		1		
	2	OPTIMA-6S	CD PICK-UP UNIT		1		
	3	E406777-001	PIC-UP SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
	6	EPB-003A	MECHA GEAR		1		
	7	E75807-301	CD T.TABLE ASSY		1		
	9	SDSP2003N	SCREW	FOR MOTOR	4		
	10	E406783-001	SPINL MOTOR		1		
	11	E406784-001SA	DC MOTOR ASS'Y	FEED MOTOR	1		
	12	E75832-001	S.SCREW	M.REAF SWITCH	1		
	13	EMW10190-001	PRINTED BOARD	LEAF SWITCH	1		
	14	EMV5109-006B	6P PLUG ASSY		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	LR DAMPER		1		

10. Block Diagram

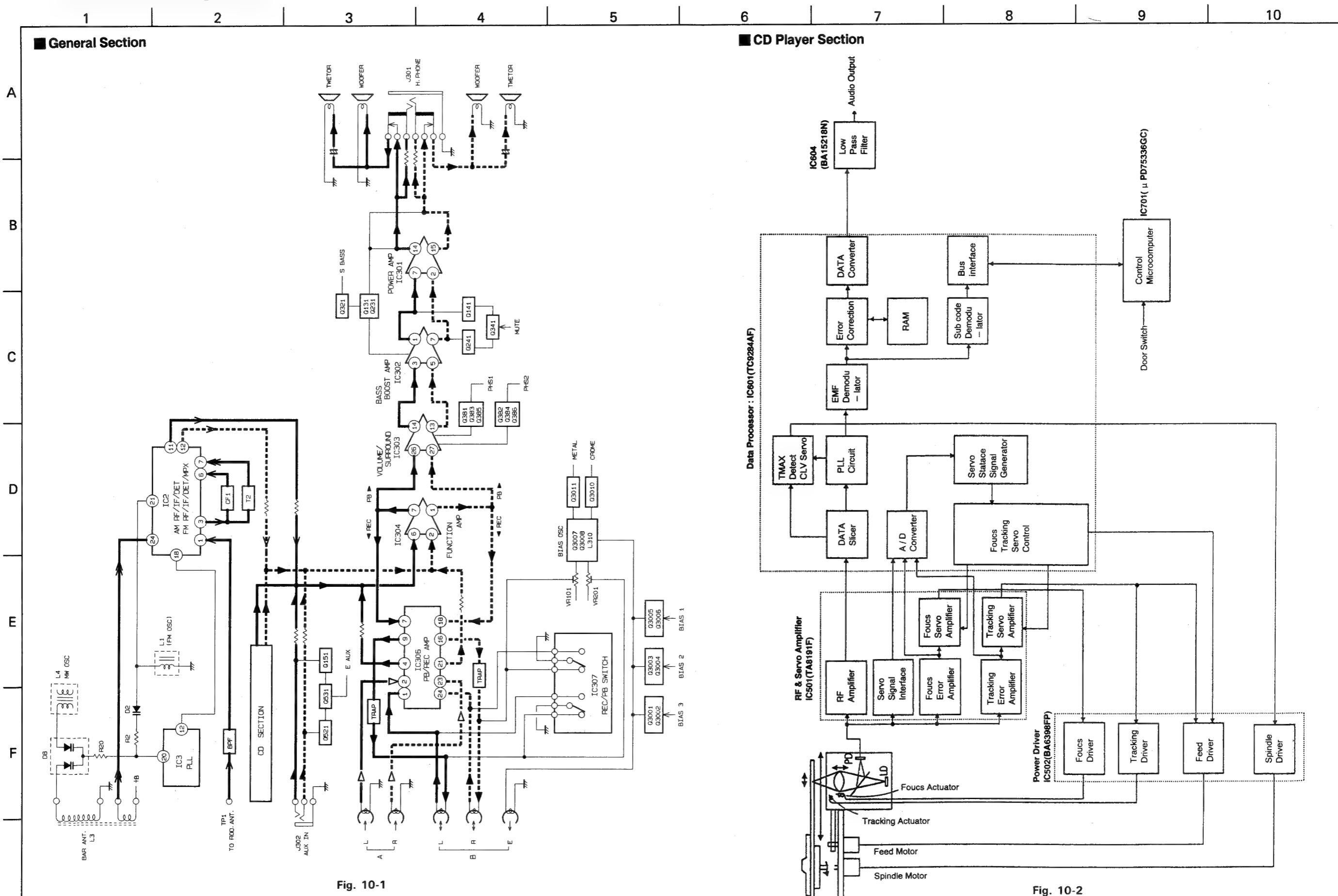


Fig. 10-1

Fig. 10-2

11. Wiring Connections

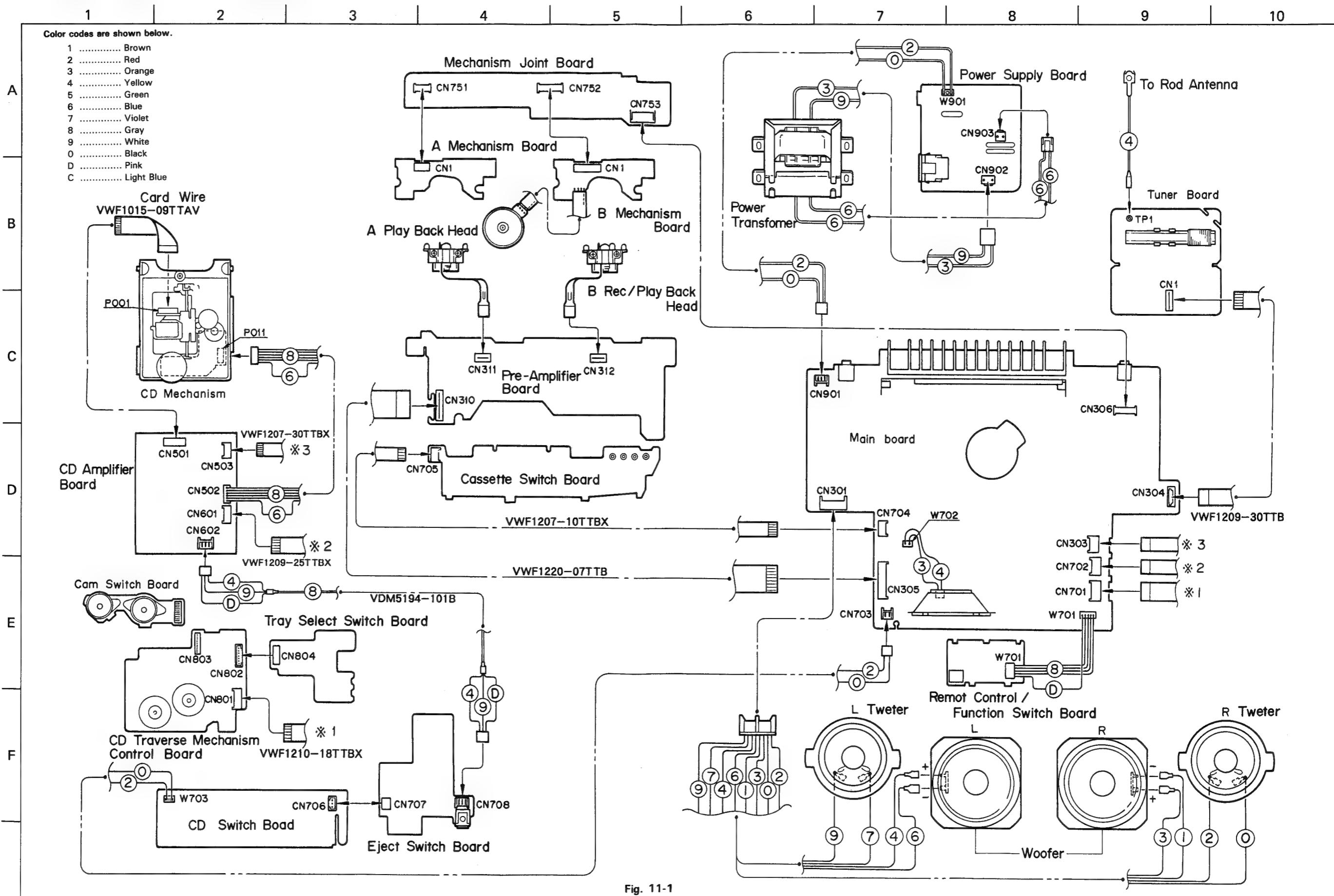
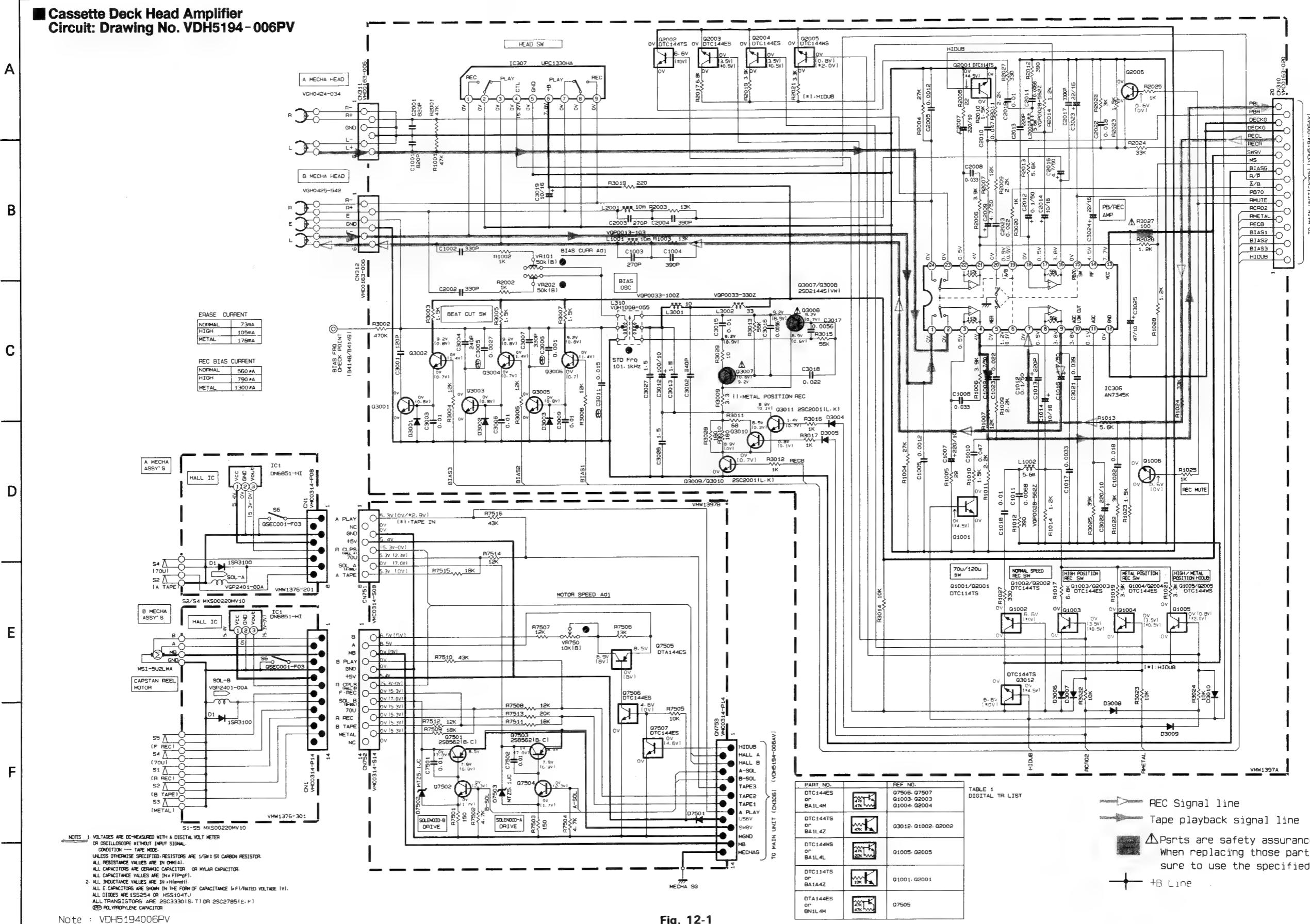
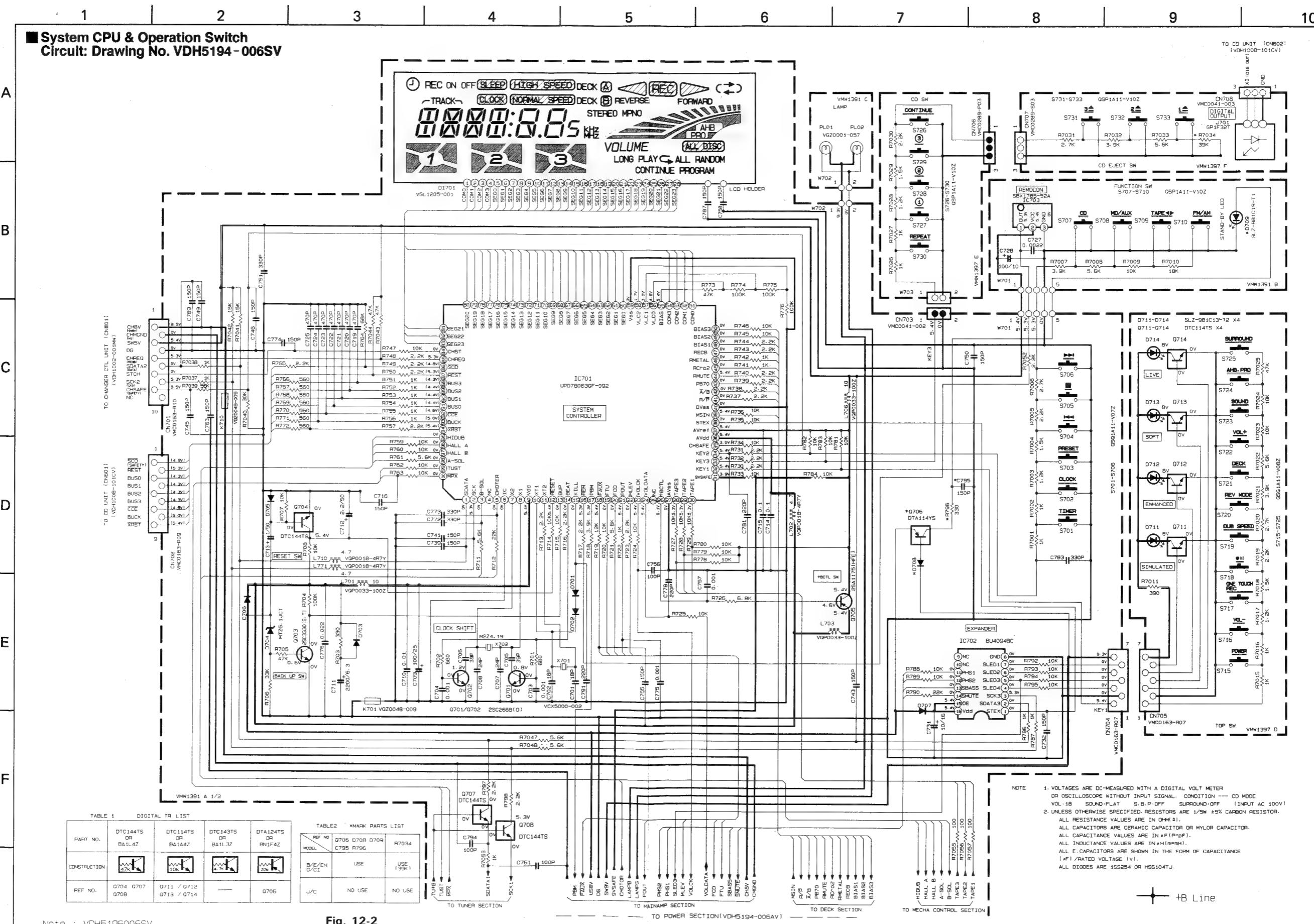


Fig. 11-1

12. Standard Schematic Diagram

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10





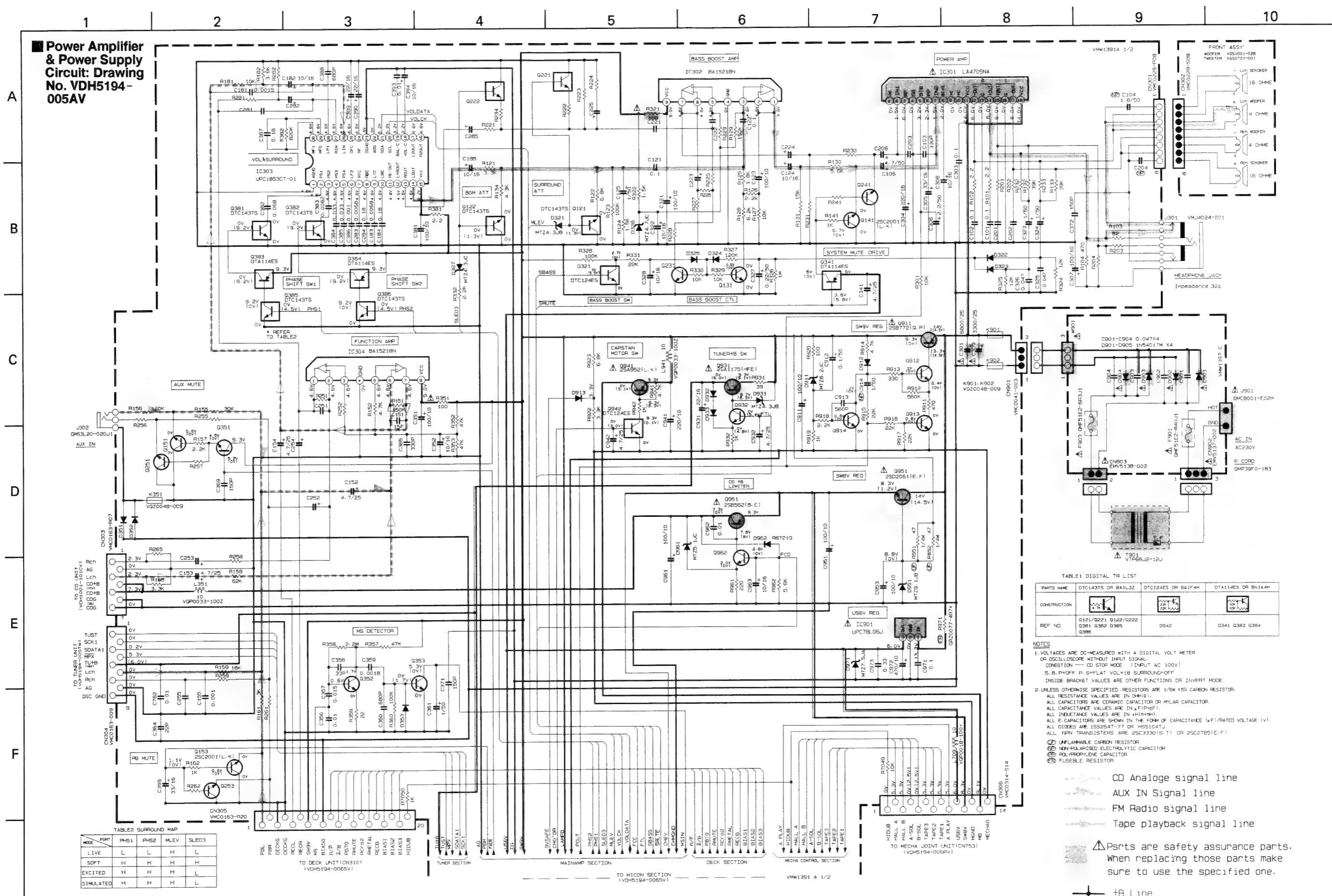
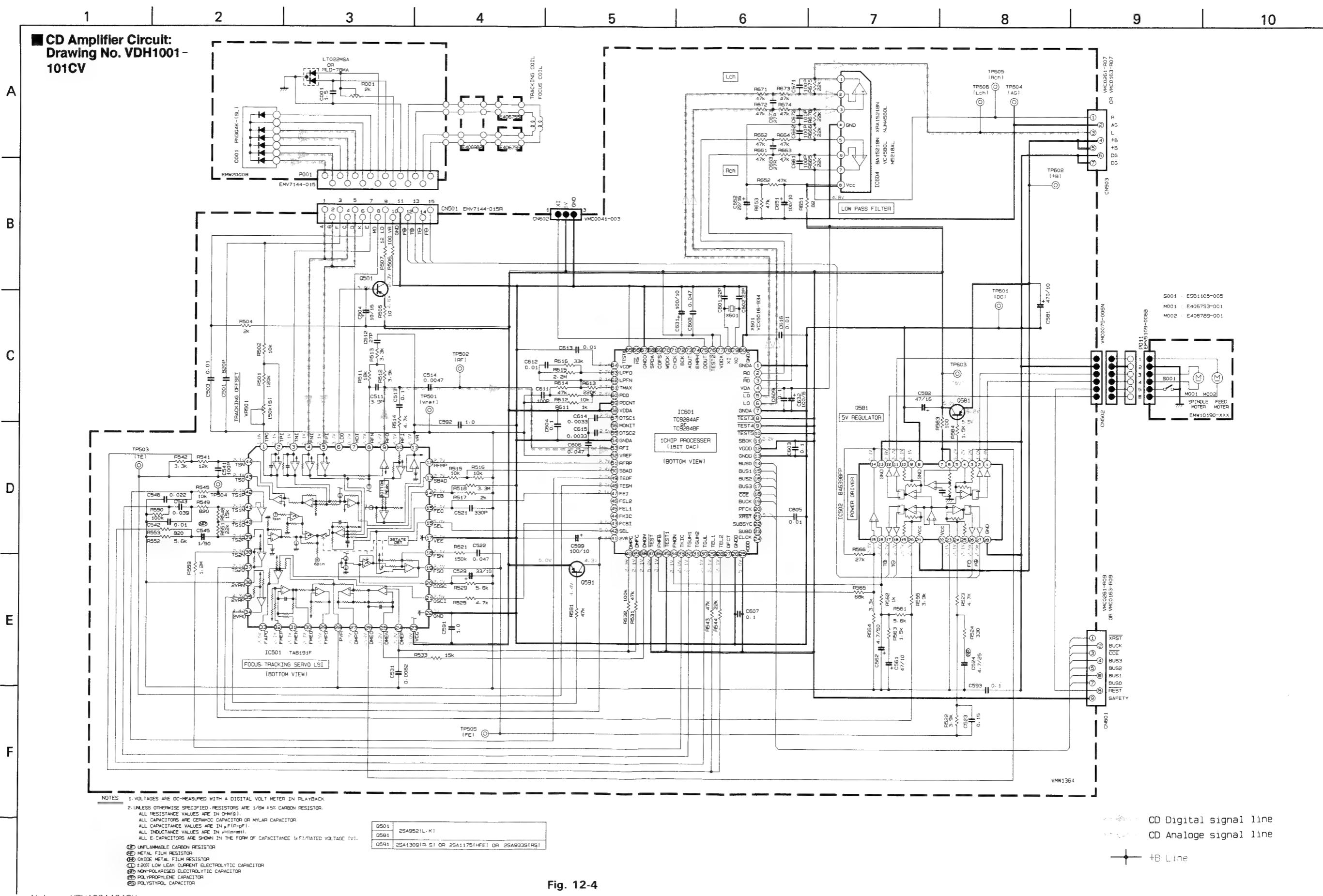


Fig. 12-3



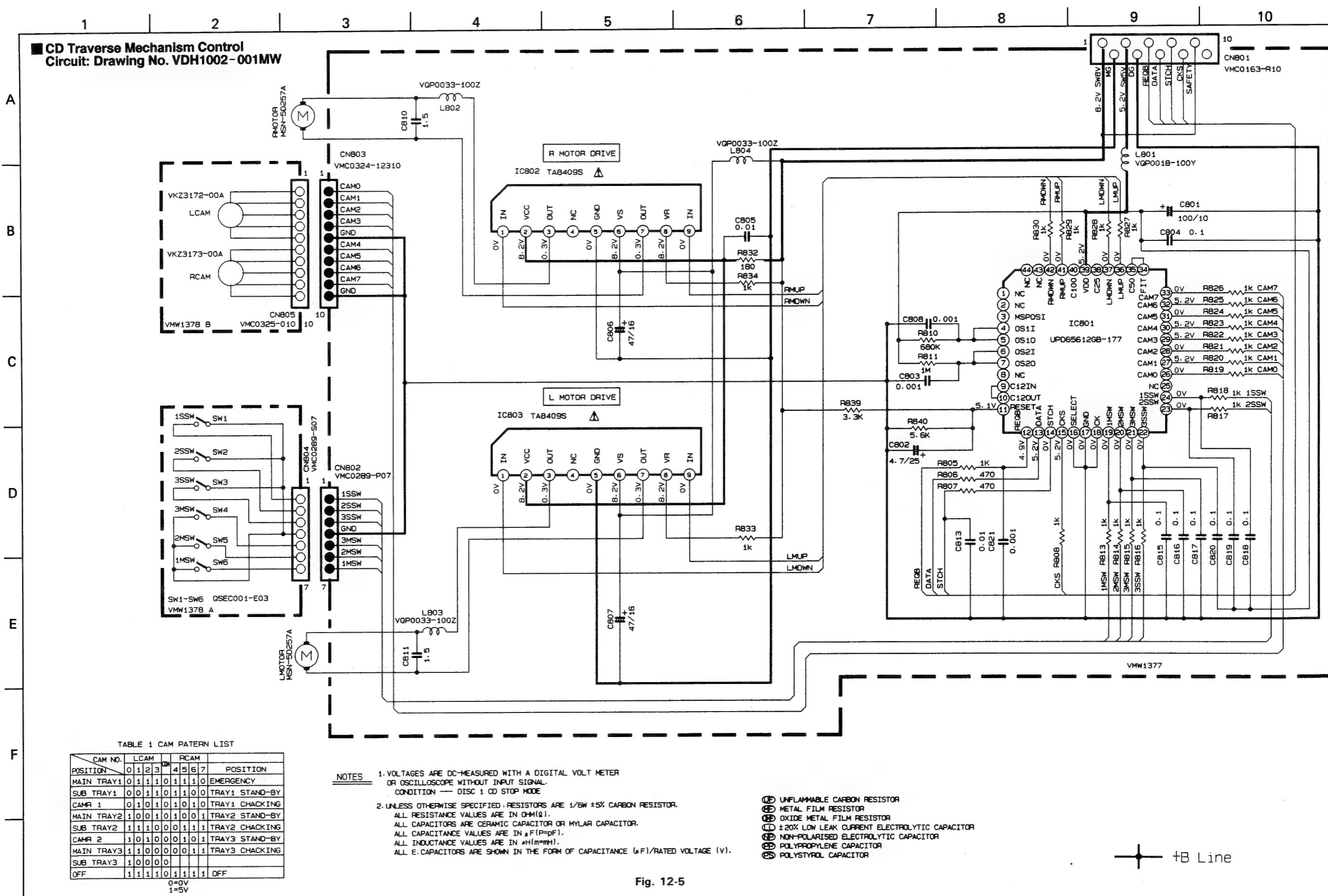
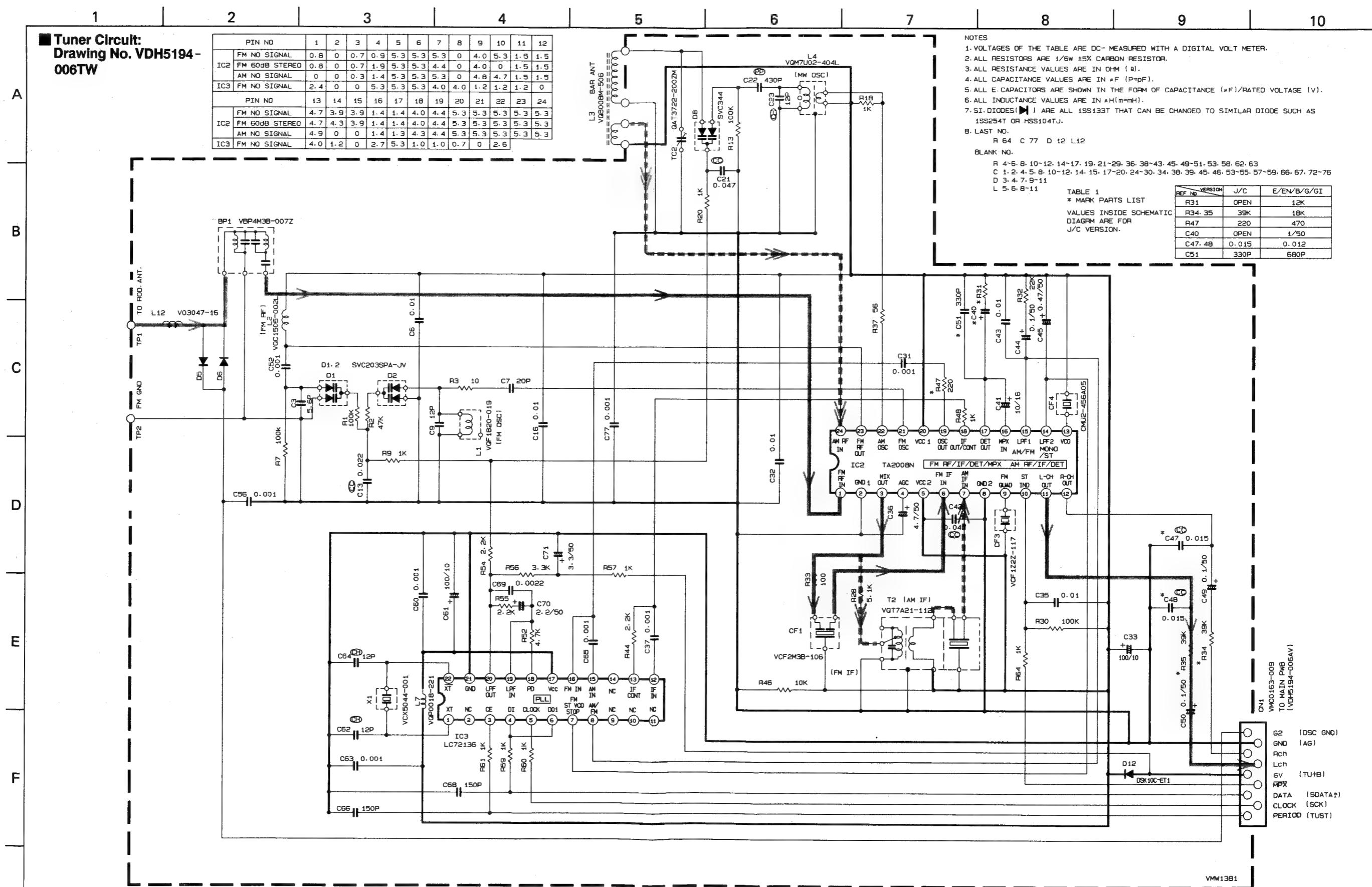


Fig. 12-5

Note : VDH9273001MW



Note : VDH5194006TW

Fig. 12-6
(No. 1991) 72

--> FM Radio signal line
- -> AM Radio signal line

13. Location of P. C. Board Parts

1 2 3 4 5 6 7 8 9 10

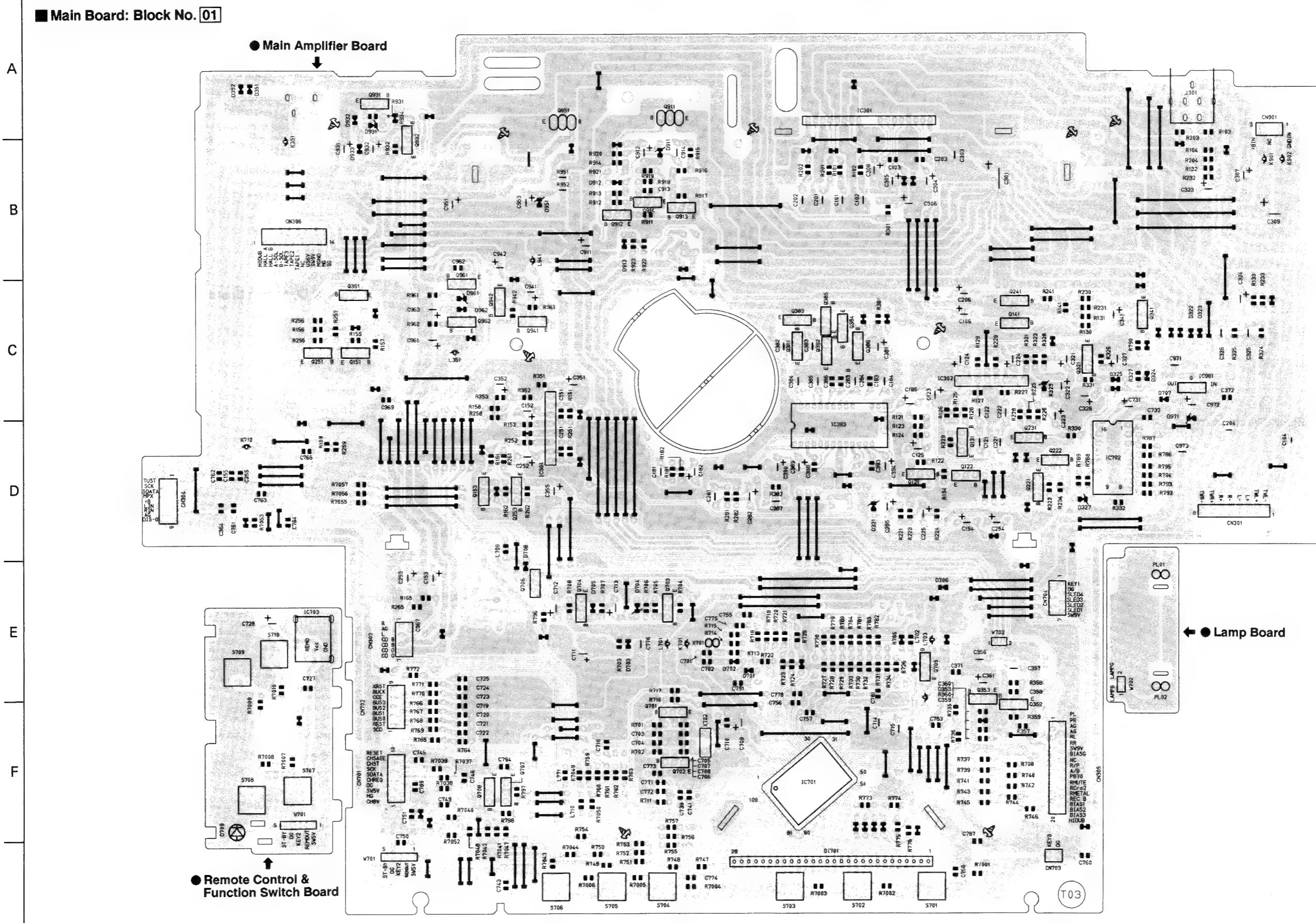


Fig. 13-1

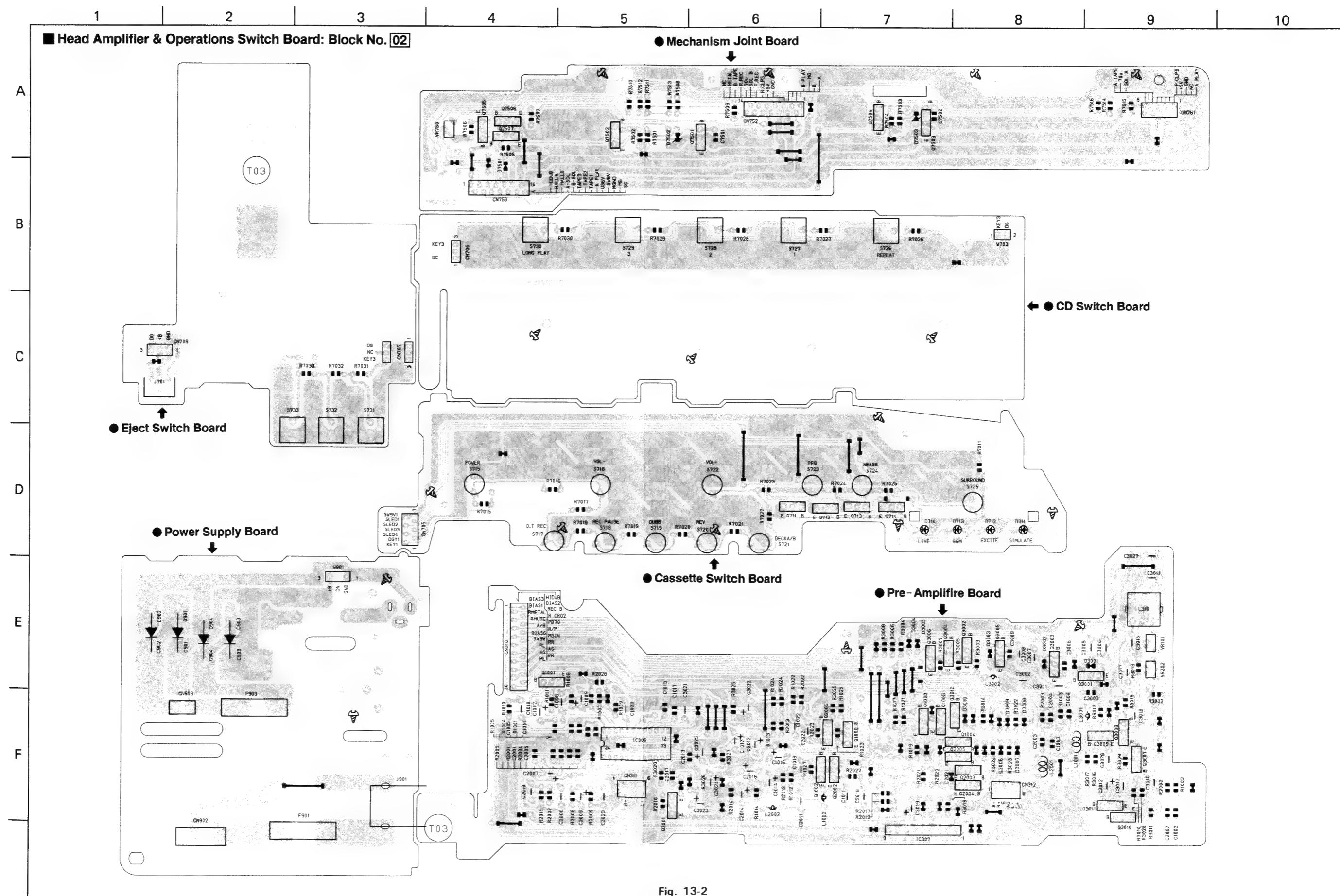


Fig. 13-2

(No. 1991) 74

■ Tuner Board: Block No. 03

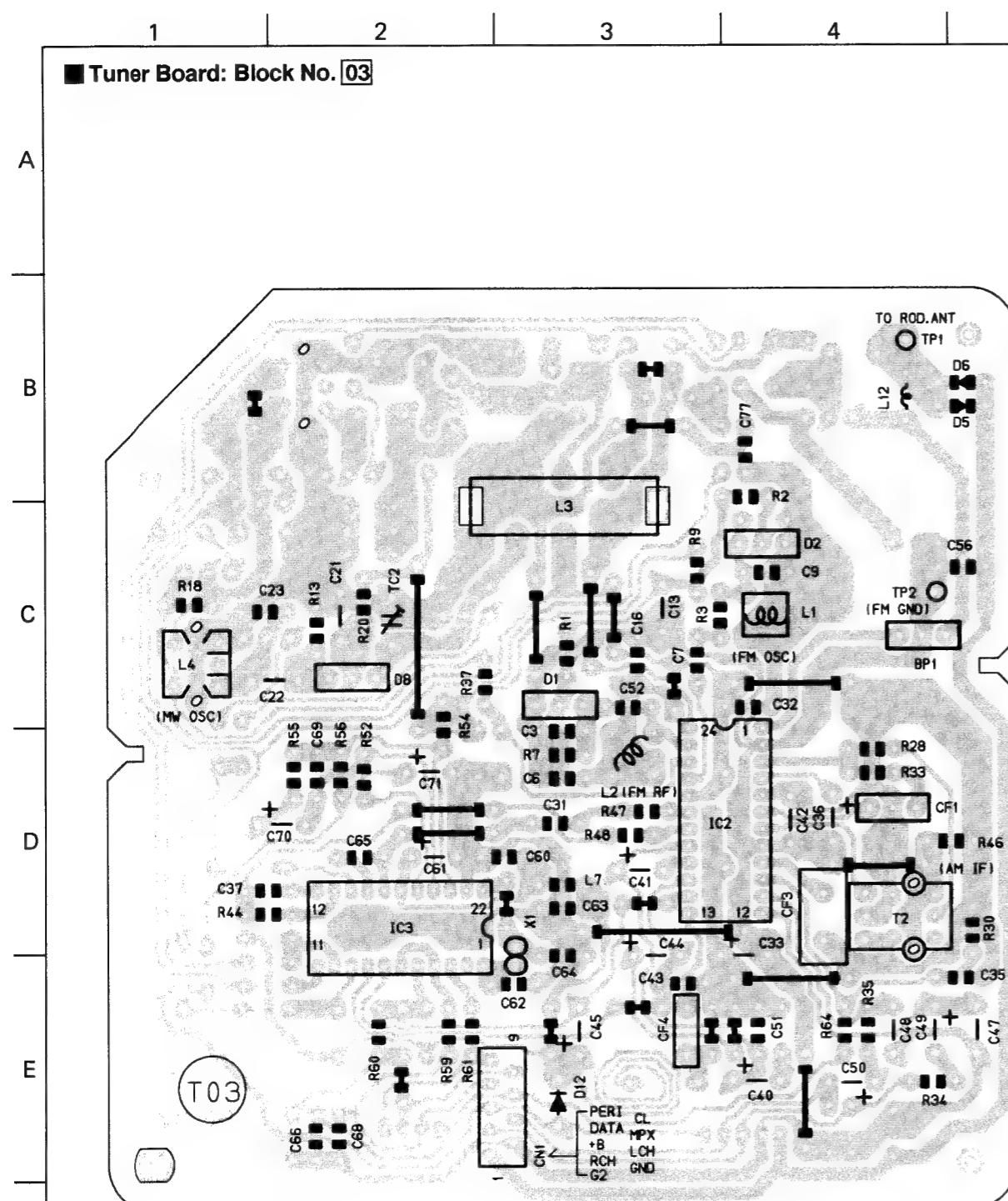


Fig. 13-3

■ CD Amplifier Board: Block No. 04

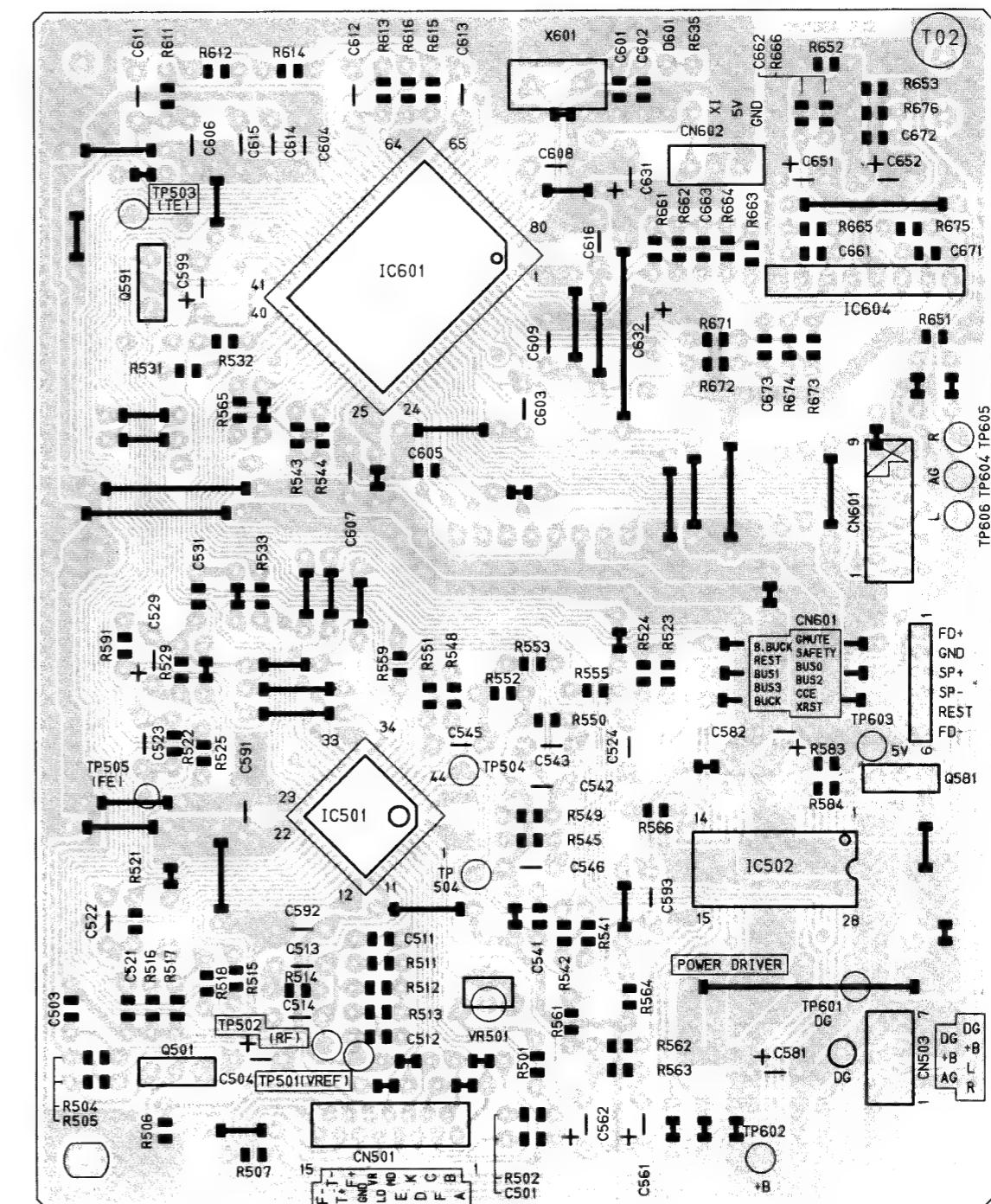
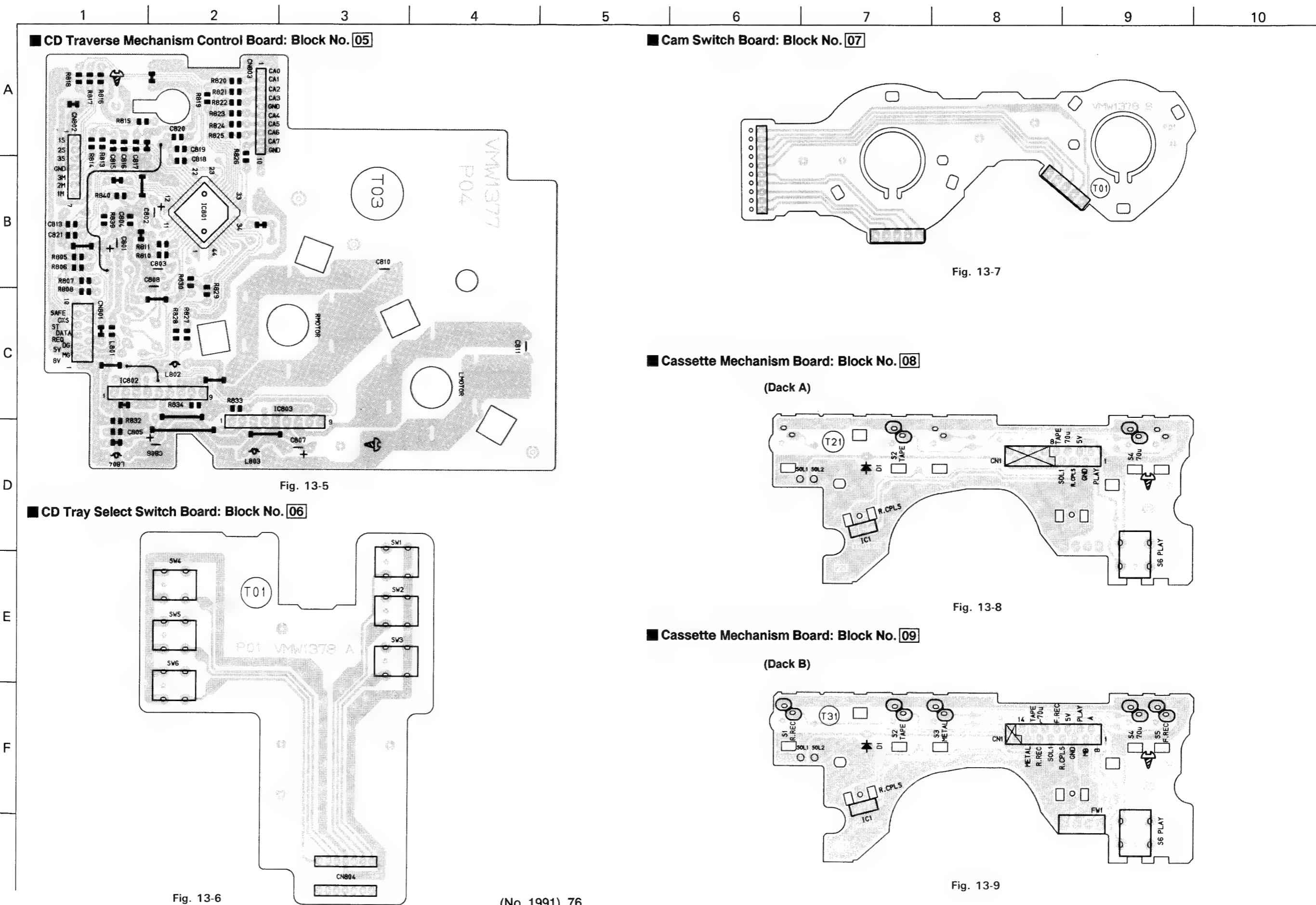


Fig. 13-4



14. Electrical Parts

Main Board

▲ REF.	PARTS NO.	PARTS NAME	REMARKS	BLOCK NO.
C 101	QFC1HJ-1042M	M.CAPACITOR	PS	
C 102	QFC1HJ-1042M	M.CAPACITOR	PS	
C 103	QCBB1HK-331Y	C.CAPACITOR	HI-CUT	
C 104	QE2028-185	NP E.CAPACITOR	SK CUT	
C 105	QE61HM-475M	E.CAPACITOR	IN CUP	
C 121	QFV41HJ-102M	FILM CAPACITOR	HFF1	
C 122	QFV41HJ-1042M	FILM CAPACITOR	HFF2	
C 124	QEKA1EM-102M	E.CAPACITOR	OUT CUP	
C 125	QEKA1HM-105	E.CAPACITOR	LQW.B	
C 151	QCS11HJ-150	C.E.CAPACITOR	NFB	
C 152	QEKA1EM-475	C.E.CAPACITOR	ADD CUP	
C 153	QEKA1EM-475	E.CAPACITOR	CD CUP	
C 154	QEKA1EM-475	E.CAPACITOR	REC OUT	
C 155	QCBA1HK-471Y	C.CAPACITOR	TUNER	
C 181	QFV81HJ-152	M.CAPA. I.M	HI-UP	
C 182	QEFA1CM-106	E.CAPACITOR	IN CUP	
C 183	QCBI1CM-682Y	C.CAPACITOR	HI-TC	
C 184	QFV11HJ-184AZM	FILM CAPACITOR	LCW-BC	
C 185	QEFA1CM-106	E.CAPACITOR	OUT CUP	
C 201	QFLC1HJ-102M	M.CAPACITOR	PS	
C 202	QFL1HJ-1042M	M.CAPACITOR	PS	
C 203	QCBB1HK-331Y	C.CAPACITOR	HI-CUT	
C 204	QE2028-185	NP E.CAPACITOR	SK CUT	
C 206	QE61HM-475M	E.CAPACITOR	IN CUP	
C 221	QFV41HJ-102M	FILM CAPACITOR	HFF1	
C 222	QFV41HJ-1042M	FILM CAPACITOR	HFF2	
C 223	QEKG1AM-102M	E.CAPACITOR	NF	
C 224	QEFA1CM-106	E.CAPACITOR	OUT CUP	
C 225	QEKA1HM-105	E.CAPACITOR	LQW.B	
C 251	QCS11HJ-150	C.CAPACITOR	NFB	
C 252	QEKA1EM-475	E.CAPACITOR	ADD CUP	
C 253	QEKA1EM-475	E.CAPACITOR	CD CUP	
C 254	QEKA1EM-475	E.CAPACITOR	REC OUT	
C 255	QCBA1HK-471Y	C.CAPACITOR	TUNER	
C 281	QFV81HJ-152	M.CAPA. I.M	HI-UP	
C 282	QEFA1CM-106	E.CAPACITOR	IN CUP	
C 283	QCBI1CM-682Y	C.CAPACITOR	HI-TC	
C 284	QFV11HJ-184AZM	FILM CAPACITOR	LCW-BC	
C 285	QEFA1CM-106	E.CAPACITOR	OUT CUP	
A C 301	QETM1EM-688	E.CAPACITOR	DE CUP1	
C 303	QFV11HJ-1042M	FILM CAPACITOR	DE CUP3	
C 304	QE7A1CM-227	E.CAPACITOR	R.F	
C 305	QE7A1CM-336	E.CAPACITOR	P.P	
C 306	QETC1HM-2252N	E.CAPACITOR	ST-BY	
C 307	QEKS1AM-107	E.CAPACITOR	HP-GND	
C 308	QEKA1CM-106	E.CAPACITOR	ST-BY2	
C 309	QETM1EM-338	E.CAPACITOR	DE CUP4	
C 321	QEKA1AM-1072M	E.CAPACITOR	VCC	
C 322	QEKA1CM-106	E.CAPACITOR	COM	
C 323	QEKA1HM-105	E.CAPACITOR	DET	
C 325	QEKA1HM-473M	M.CAPACITOR	ALC1	
C 326	QFLC1HJ-473M	M.CAPACITOR	ALC1	
C 327	QEKA1HM-224	E.CAPACITOR	ALC2	

▲ REF.	PARTS NO.	PARTS NAME	SUFFIX	BLOCK NO.	SUFFIX	PARTS NO.	PARTS NAME	REMARKS	BLOCK NO.
C 328	QEKC1CM-106	E.CAPACITOR				C 341	QEKC1EM-475	10MF 20% 16V	
		E.CAPACITOR				C 351	QEKS1AM-107	SMUTE	VCC
		E.CAPACITOR				C 355	QEKC1CM-336	COM	TA M
		E.CAPACITOR				C 356	QCVB1CN-103Y	-010MF 30% 16V	
		E.CAPACITOR				C 357	QFLC1HJ-1532M	0.15MF 5% 50V	
		E.CAPACITOR				C 358	QCS11HJ-330	3.3PF 5% 50V	
		E.CAPACITOR				C 359	QCB1CM-182Y	0.15MF 5% 50V	
		E.CAPACITOR				C 360	QCBB1HK-681Y	680PF 10% 50V	
		E.CAPACITOR				C 361	QEKA1HM-105	1.0MF 20% 50V	
		E.CAPACITOR				C 364	QCS11HJ-220	TUNER	
		E.CAPACITOR				C 369	QCBB1HK-151Y	AUX-AG	
		E.CAPACITOR				C 371	QCBB1HK-151Y	150PF 10% 50V	
		E.CAPACITOR				C 372	QCBB1HK-151Y	R+ TO GND	
		E.CAPACITOR				C 381	QEKA1AM-1072M	VCC	
		E.CAPACITOR				C 382	QFLC1HJ-6832M	PS1	
		E.CAPACITOR				C 383	QCVB1CM-822Y	PS2	
		E.CAPACITOR				C 384	QFLC1HJ-3532M	PS3	
		E.CAPACITOR				C 385	QFLC1HJ-3532M	PS4	
		E.CAPACITOR				C 386	QCBB1HK-102Y	LF2	
		E.CAPACITOR				C 387	QFV11HJ-184AZM	FILM CAPACITOR	
		E.CAPACITOR				C 388	QCBB1HK-681Y	M.CAPACITOR	
		E.CAPACITOR				C 389	QEKA1CM-226	E.CAPACITOR	
		E.CAPACITOR				C 390	QEKA1CM-226	E.CAPACITOR	
		E.CAPACITOR				C 393	QCVB1CN-103Y	C.CAPACITOR	BAL-C
		E.CAPACITOR				C 394	QEKA1CM-106	E.CAPACITOR	VOL-C
		E.CAPACITOR				C 701	QCS11HJ-180	C.CAPACITOR	SUB CK
		E.CAPACITOR				C 702	QCS11HJ-180	C.CAPACITOR	SUB CK
		E.CAPACITOR				C 703	QCBB1HK-102Y	C.CAPACITOR	MAIN CK
		E.CAPACITOR				C 704	QCBB1HK-102Y	C.CAPACITOR	MAIN CK
		E.CAPACITOR				C 705	QCS31HJ-390Z	C.CAPACITOR	MAIN CK
		E.CAPACITOR				C 706	QCS31HJ-390Z	E.CAPACITOR	MAIN CK
		E.CAPACITOR				C 707	QCS11HJ-240	C.CAPACITOR	MAIN CK
		E.CAPACITOR				C 708	QCS11HJ-240	C.CAPACITOR	MAIN CK
		E.CAPACITOR				C 709	QE141EM-107	E.CAPACITOR	VDD
		E.CAPACITOR				C 710	QCBB1HK-103Y	C.CAPACITOR	BUCK UP
		E.CAPACITOR				C 711	QEIM0JM-228	E.CAPACITOR	RESET
		E.CAPACITOR				C 712	QETC1HM-2252N	E.CAPACITOR	
		E.CAPACITOR				C 713	QEKA1HM-105	E.CAPACITOR	
		E.CAPACITOR				C 714	QFLC1HJ-1042M	M.CAPACITOR	
		E.CAPACITOR				C 715	QFLC1HJ-1042M	10MF 5% 50V	
		E.CAPACITOR				C 716	QCBB1HK-151Y	150PF 10% 50V	
		E.CAPACITOR				C 717	QCBB1HK-471Y	4.70PF 10% 50V	
		E.CAPACITOR				C 720	QCBB1HK-471Y	4.70PF 10% 50V	
		E.CAPACITOR				C 721	QCBB1HK-471Y	C.CAPACITOR	
		E.CAPACITOR				C 722	QCBB1HK-471Y	C.CAPACITOR	
		E.CAPACITOR				C 723	QCBB1HK-471Y	C.CAPACITOR	
		E.CAPACITOR				C 724	QCBB1HK-471Y	C.CAPACITOR	
		E.CAPACITOR				C 725	QCBB1CM-222Y	C.CAPACITOR	
		E.CAPACITOR				C 727	QEKS1AM-107	E.CAPACITOR	REMCON
		E.CAPACITOR				C 731	QEKA1CM-106	E.CAPACITOR	EXPAN
		E.CAPACITOR				C 732	QCBB1HK-151Y	C.CAPACITOR	STEX
		E.CAPACITOR				C 739	QCBB1HK-151Y	C.CAPACITOR	SDATA

BLOCK NO. 01111111					
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	741	QCBBA1H-151Y	C.CAPACITOR	SCK	
C	743	QCBBA1H-151Y	C.CAPACITOR	SDATA	
C	745	QCBBA1H-151Y	C.CAPACITOR	CH SAFE	
C	746	QCBBA1H-151Y	C.CAPACITOR	CH SAFE	
C	749	QCBBA1H-151Y	C.CAPACITOR	SATA	
C	750	QCBBA1H-151Y	C.CAPACITOR	DG-MG	
C	751	QCBBA1H-331Y	C.CAPACITOR	SWV	
C	755	QCBBA1H-151Y	C.CAPACITOR	PBRUTE	
C	756	QCVB1C-N-101Y	C.CAPACITOR	VOL IC	
C	757	QCBBA1H-102Y	C.CAPACITOR	+BCTL	
C	758	QCBBA1H-151Y	C.CAPACITOR	LCD	
C	760	QCBBA1H-151Y	C.CAPACITOR	BIASG-DG	
C	761	QCBBA1H-101Y	C.CAPACITOR	100PF 10% 50V	
C	762	QCVB1C-N-103Y	C.CAPACITOR	.010MF 30% 16V	
C	763	QCBBA1H-151Y	C.CAPACITOR	CHRV AG	
C	764	QCBBA1H-151Y	C.CAPACITOR	150PF 10% 50V	
C	765	QCBBA1H-151Y	C.CAPACITOR	150PF 10% 50V	
C	772	QCBBA1H-331Y	C.CAPACITOR	330PF 10% 50V	
C	773	QCBBA1H-331Y	C.CAPACITOR	330PF 10% 50V	
C	774	QCBBA1H-151Y	C.CAPACITOR	150PF 10% 50V	
C	775	QCBBA1H-102Y	C.CAPACITOR	1000PF 10% 50V	
C	776	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
C	778	QCBBA1H-221Y	C.CAPACITOR	220PF 10% 50V	
C	781	QCBBA1H-221Y	C.CAPACITOR	220PF 10% 50V	
C	783	QCBBA1H-331Y	C.CAPACITOR	330PF 10% 50V	
C	787	QCBBA1H-151Y	C.CAPACITOR	LAMP CASE	
C	789	QCBBA1H-151Y	C.CAPACITOR	150PF 10% 50V	
C	791	QCBBA1H-221Y	C.CAPACITOR	220PF 10% 50V	
C	794	QCBBA1H-101Y	C.CAPACITOR	TU CLK	
C	795	QCBBA1H-331Y	C.CAPACITOR	ST-BY	
C	911	QEKG1AM-102ZM	E.CAPACITOR	PASS CAP	
C	912	QETCA1H-104ZN	E.CAPACITOR	DECUP	
C	913	QCBBA1H-561Y	C.CAPACITOR	NFB	
C	914	QEKG1HM-105Z	NP.E.CAPACITOR		
C	931	QEKG1CM-226	E.CAPACITOR		
C	932	QEKG1EM-475	E.CAPACITOR	TUSW	
C	941	QEKG1EM-227	E.CAPACITOR	220MF 20% 10V	
C	942	QEKG1EM-475	E.CAPACITOR	4.7MF 20% 25V	
C	951	QEKG1AM-107	E.CAPACITOR	100MF 20% 10V	
C	953	QEKG1AM-107	E.CAPACITOR	SWBV	
C	961	QEKG1AM-107	E.CAPACITOR	100MF 20% 10V	
C	962	QCVB1C-N-103Y	C.CAPACITOR	.010MF 30% 16V	
C	963	QEKG1CM-106	E.CAPACITOR	10MF 20% 16V	
C	971	QFV1AH-104ZM	E.CAPACITOR	.10MF 5% 50V	
C	972	QFV1HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V	
C	973	QEKG1AM-477	E.CAPACITOR	470MF 20% 10V	
CN	301	VMC0229-P08	CONNECTOR	TO SPK	
CN	303	VMCO163-R07	CONNECTOR	TO CD	
CN	304	VMCO163-009	CONNECTOR	TO TUNER	
CN	305	VMCO163-R20	CONNECTOR	TO DECK	
CN	306	VMCO13-S14	CONNECTOR	JOINT PWB	
CN	301	VMCO163-R10	CONNECTOR	CHANGER	
CN	302	VMCO163-R09	CONNECTOR	CD	
CN	303	VMCO041-002	CONNECTOR	TOP SW	
CN	304	VMCO163-R07	CONNECTOR	CD SW	

BLOCK NO. 01111111					
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D	321	VMC0041-003	CONNECTOR	P.SUPPLY	
D	322	MT24-3JB	ZENER DIODE	M.LEV	
D	322	ISS133	SI DIODE	ALC	
D	324	ISS133	SI DIODE	BB SW	
D	325	ISS133	SI DIODE	BB SW	
D	326	MT24-7JC	Z.DIODE 1.M	BGM ATT	
D	327	MT24-3JC	Z.DIODE 1.M	AUX DISCHARGE	
D	351	ISS133	SI DIODE	AUX DISCHARGE	
D	352	ISS133	SI DIODE	BUCK UP	
D	701	ISS133	SI DIODE	KILL	
D	702	ISS133	SI DIODE	KILL	
D	703	ISS133	SI DIODE	BUCK UP	
D	704	MT25-1JC	ZENER DIODE	RESET	
D	705	ISS133	SI DIODE	US6V	
D	706	ISS133	SI DIODE	US6V	
D	707	ISS133	SI DIODE	STBY	
D	708	ISS133	SI DIODE	STBY-LED	
D	709	SU2-981C19-T1	LED 1.M		
D	911	MT28-2JC	ZENER DIODE	V.REF	
D	912	ISS133	SI DIODE	V.REF	
D	913	ISS133	SI DIODE	SAFETY	
D	914	ISS133	SI DIODE	SAFETY	
D	915	MT24-3JB	ZENER DIODE	SAFETY	
D	932	ISS133	SI DIODE	LCD	
D	933	ISS133	SI DIODE	BTL	
D	951	MT29-1JB	ZENER DIODE	BB AMP	
D	961	MT25-1JC	ZENER DIODE	VOL/TONE/SURR	
D	962	RB7210	DIODE	ADDER	
D	971	MT27-5JA	Z.DIODE 1.M	SYS-MICON	
D	1701	VGL1205-001	LCD		
A	IC301	LA4705NA	IC		
	IC302	BA15218N	IC		
	IC303	UPC1853CT-01	IC		
	IC304	BA15218N	IC		
	IC701	UPD78063GF-092	IC		
	IC702	BU494BC	IC		
	IC703	SBX1785-52A	IC		
	IC901	UPC78L06J	IC		
J	301	VMJ4024-001	JACK	H.PHONE	
J	302	QMS120-020	INDUCTOR	AUX GND	
K	351	VQZ0048-009	INDUCTOR	DVSS	
K	701	VQZ0048-009	INDUCTOR	CH8V	
K	901	VQZ0048-009	INDUCTOR		
K	902	VQZ0048-009	INDUCTOR		
L	351	VQP033-100Z	INDUCTOR	US6V	
L	702	VQP033-100Z	INDUCTOR	AVDD	
L	703	VQP033-100Z	INDUCTOR	+BCL TL	
L	709	VQP018-100	INDUCTOR	US6V	
L	710	VQP018-407	INDUCTOR	INDUCTOR	
L	941	VQP033-100Z	INDUCTOR	FOR NOISE	

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 01111111	REMARKS	PARTS NAME	PARTS NO.	REF.	A
PL	01	VG20001-057	LAMP	LCD LAMP LCD LAMP M.LEVEL			CARBON RESISTOR	RESISTOR LOW CTL	R 128	GRD161J-622	
PL	02	VG20001-057	LAMP	TRANSISTOR			CARBON RESISTOR	RESISTOR COM	R 129	GRD161J-154	
Q	121	DTC143TS	TRANSISTOR	BGM ATT			CARBON RESISTOR	MUTE	R 130	GRD167J-562	
Q	122	DTC143TS	TRANSISTOR	LOW CTL			CARBON RESISTOR	ATT	R 131	GRD161J-153	
Q	131	ZSC2785	TRANSISTOR				CARBON RESISTOR	DET	R 132	GRD161J-393	
Q	141	ZSC2001(L,K)	TRANSISTOR	AUX			CARBON RESISTOR	DET	R 133	GRD161J-432	
Q	151	ZSC2785	TRANSISTOR	AUX			CARBON RESISTOR	BGM ATT	R 134	GRD161J-432	
Q	153	ZSC2001(L,K)	TRANSISTOR	TRANSISTOR			CARBON RESISTOR	RESISTOR 1.0K 5% 1/6W	R 141	GRD161J-102	
Q	221	DTC143TS	TRANSISTOR	M.LEVEL			CARBON RESISTOR	NFB	R 151	GRD161J-154	
Q	222	DTC143TS	TRANSISTOR	BGM ATT			CARBON RESISTOR	COM	R 152	GRD161J-472	
Q	231	ZSC2785	TRANSISTOR	LOW CTL			CARBON RESISTOR	COM	R 155	GRD161J-303Y	
Q	241	ZSC2001(L,K)	TRANSISTOR	AUX			CARBON RESISTOR	AUX	R 156	GRD161J-124	
Q	251	ZSC2785	TRANSISTOR	AUX			CARBON RESISTOR	AUX M	R 157	GRD161J-222	
Q	253	ZSC2001(L,K)	TRANSISTOR	TRANSISTOR			CARBON RESISTOR	CD	R 158	GRD161J-623	
Q	321	DTC124ES	TRANSISTOR	BB SW			CARBON RESISTOR	TUNER	R 159	GRD161J-183	
Q	341	DTA114ES	TRANSISTOR	MUTE DRIV			CARBON RESISTOR	TUNER	R 161	GRD161J-302	
Q	351	ZSC2785	TRANSISTOR	AUX MUTE			CARBON RESISTOR	TAPE	R 162	GRD161J-102	
Q	352	ZSC2785	TRANSISTOR	SW			CARBON RESISTOR	TAPE M	R 165	GRD161J-332	
Q	353	ZSC2785	TRANSISTOR	SW			CARBON RESISTOR	CD IN	R 166	GRD161J-103	
Q	381	DTC143TS	TRANSISTOR	PHS SW1/2			CARBON RESISTOR	ATT	R 181	GRD161J-183	
Q	382	DTC143TS	TRANSISTOR	SW DRIVE			CARBON RESISTOR	PS	R 201	GRD161J-2R2	
Q	383	DTA114ES	TRANSISTOR	SW DRIVE			CARBON RESISTOR	PS	R 202	GRD161J-2R2	
Q	384	DTA114ES	TRANSISTOR	SW			CARBON RESISTOR	HP OUT	R 203	GRD161J-820	
Q	385	DTC143TS	TRANSISTOR	SW			CARBON RESISTOR	HP	R 204	GRD161J-471	
Q	386	DTC143TS	TRANSISTOR	SW			CARBON RESISTOR	ATT	R 221	GRD167J-332	
Q	701	ZSC1923	TRANSISTOR	MAIN CK			CARBON RESISTOR	ATT	R 182	GRD161J-362	
Q	702	ZSC1923	TRANSISTOR	MAIN CK			CARBON RESISTOR	PS	R 223	GRD161J-104	
Q	703	ZSC3330	TRANSISTOR	BUCK UP			CARBON RESISTOR	PS	R 224	GRD161J-152	
Q	704	DTC144TS	TRANSISTOR	RESET			CARBON RESISTOR	CD IN	R 225	GRD161J-182	
Q	705	ZSA1317	TRANSISTOR	+BC1L			CARBON RESISTOR	ATT	R 226	GRD161J-222	
Q	706	DTA124STP	TRANSISTOR TAPE	LED ST-BY			CARBON RESISTOR	TAPE	R 227	GRD167J-682	
Q	707	DTC144TS	TRANSISTOR	TU			CARBON RESISTOR	TAPE M	R 228	GRD161J-622	
Q	708	DTC144TS	TRANSISTOR	TU			CARBON RESISTOR	CD IN	R 229	GRD161J-154	
Q	911	ZSB772(Q,P)	TRANSISTOR	SW9V			CARBON RESISTOR	ATT	R 230	GRD167J-562	
Q	912	ZSC2785	TRANSISTOR				CARBON RESISTOR	HPF1	R 231	GRD161J-153	
Q	913	ZSC2785	TRANSISTOR				CARBON RESISTOR	HPF2	R 232	GRD161J-103	
Q	914	ZSC2785	TRANSISTOR	TUNER SW			CARBON RESISTOR	HPF3	R 233	GRD161J-393	
Q	931	ZSA1175	TRANSISTOR	REF			CARBON RESISTOR	LOW CTL	R 234	GRD161J-102	
Q	932	ZSC2785	TRANSISTOR	DRIVE			CARBON RESISTOR	ATT	R 235	GRD161J-154	
Q	941	ZSA952(L,K)	TRANSISTOR				CARBON RESISTOR	DET	R 252	GRD161J-472	
Q	942	DTC124ES	TRANSISTOR	SW8V			CARBON RESISTOR	DET	R 236	GRD161J-393	
Q	951	ZSD2061(F,G)	TRANSISTOR	CD SW			CARBON RESISTOR	DET	R 237	GRD161J-432	
Q	961	ZSB562(B,C)	TRANSISTOR				CARBON RESISTOR	DET	R 241	GRD161J-103	
Q	962	ZSC2785	TRANSISTOR				CARBON RESISTOR	DET	R 251	GRD161J-154	
R	101	GRD161J-2R2	CARBON RESISTOR	PS			CARBON RESISTOR	DET	R 255	GRD161J-472	
R	102	GRD161J-2R2	CARBON RESISTOR	HP OUT			CARBON RESISTOR	DET	R 256	GRD161J-303Y	
R	103	GRD161J-820	CARBON RESISTOR	HP			CARBON RESISTOR	DET	R 257	GRD161J-222	
R	104	GRD161J-471	CARBON RESISTOR	3.3K 5% 1/6W			CARBON RESISTOR	DET	R 258	GRD161J-623	
R	121	GRD161J-332	CARBON RESISTOR	6.8K 5% 1/6W			CARBON RESISTOR	DET	R 261	GRD161J-302	
R	122	GRD161J-682	CARBON RESISTOR	100K 5% 1/6W			CARBON RESISTOR	DET	R 262	GRD161J-102	
R	123	GRD161J-104	CARBON RESISTOR	1.5K 5% 1/6W			CARBON RESISTOR	DET	R 265	GRD167J-332	
R	124	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W			CARBON RESISTOR	DET	R 281	GRD161J-103	
R	125	GRD161J-182	CARBON RESISTOR	HPF1			CARBON RESISTOR	DET	R 282	GRD161J-362	
R	126	GRD161J-222	CARBON RESISTOR	HPF2			CARBON RESISTOR	DET	R 301	GRD161J-103	
R	127	GRD161J-103	CARBON RESISTOR	HPF3			CARBON RESISTOR	DET	R 322	GRD161J-152	

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [RELLL]
R 325	GRD161J-123	CARBON RESISTOR DET				
R 326	GRD161J-105	CARBON RESISTOR ALC				
R 327	GRD161J-124	CARBON RESISTOR ALC				
R 328	GRD161J-104	CARBON RESISTOR BB SW				
R 329	GRD161J-103	CARBON RESISTOR CTL				
R 330	GRD161J-103	CARBON RESISTOR CTL				
R 331	GRD161J-223	CARBON RESISTOR BB SW				
R 332	GRD161J-222	CARBON RESISTOR BGM ATT				
R 351	GRD161J-101	CARBON RESISTOR VCC				
R 352	GRD161J-473	CARBON RESISTOR COM				
R 353	GRD161J-473	CARBON RESISTOR COM				
R 357	GRD161J-473	CARBON RESISTOR 47K 5% 1/6W				
R 358	GRD161J-225	CARBON RESISTOR 2.2M 5% 1/6W				
R 359	GRD161J-220	CARBON RESISTOR 2.2M 5% 1/6W				
R 360	GRD161J-104	CARBON RESISTOR 100K 5% 1/6W				
R 381	GRD161J-2R2	CARBON RESISTOR VCC				
R 382	GRD161J-224	CARBON RESISTOR MF				
R 701	GRD161J-681	CARBON RESISTOR MAIN CK				
R 702	GRD161J-681	CARBON RESISTOR MAIN CK				
R 703	GRD161J-331	CARBON RESISTOR BUCK UP				
R 704	GRD161J-104	CARBON RESISTOR BUCK UP				
R 705	GRD161J-73	CARBON RESISTOR BUCK UP				
R 706	GRD161J-333	CARBON RESISTOR BUCK UP				
R 707	GRD161J-103	CARBON RESISTOR RESET				
R 708	GRD161J-103	CARBON RESISTOR RESET				
R 711	GRD161J-582	CARBON RESISTOR 5.6K 5% 1/6W				
R 712	GRD161J-223	CARBON RESISTOR 22K 5% 1/6W				
R 713	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 714	GRD161J-103	CARBON RESISTOR RESET				
R 715	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 716	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 717	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 718	GRD161J-312	CARBON RESISTOR 3.9K 5% 1/6W				
R 719	GRD161J-123	CARBON RESISTOR 12K 5% 1/6W				
R 720	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 721	GRD161J-562	CARBON RESISTOR 5.6K 5% 1/6W				
R 722	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R 723	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 724	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 725	GRD161J-103	CARBON RESISTOR VOLDATA				
R 726	GRD161J-682	CARBON RESISTOR 6.8K 5% 1/6W				
R 727	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 728	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 729	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 730	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 731	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 732	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 733	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 734	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 735	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 736	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 737	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 738	GRD161J-222	CARBON RESISTOR BUG				
R 739	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 740	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [RELLL]
R 741	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R 742	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R 743	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 744	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 745	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 746	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 747	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 748	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 749	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 750	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 751	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R 752	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R 753	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R 754	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R 755	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R 756	GRD161J-102	CARBON RESISTOR 1.0K 5% 1/6W				
R 757	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 759	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 760	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 761	GRD161J-561	CARBON RESISTOR 5.6K 5% 1/6W				
R 762	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 763	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 764	GRD161J-683	CARBON RESISTOR 6.8K 5% 1/6W				
R 765	GRD161J-222	CARBON RESISTOR 2.2K 5% 1/6W				
R 766	GRD161J-561	CARBON RESISTOR 5.6K 5% 1/6W				
R 767	GRD161J-561	CARBON RESISTOR 5.6K 5% 1/6W				
R 768	GRD161J-561	CARBON RESISTOR 5.6K 5% 1/6W				
R 769	GRD161J-561	CARBON RESISTOR 5.6K 5% 1/6W				
R 770	GRD161J-561	CARBON RESISTOR 5.6K 5% 1/6W				
R 771	GRD161J-561	CARBON RESISTOR 5.6K 5% 1/6W				
R 772	GRD161J-561	CARBON RESISTOR 5.6K 5% 1/6W				
R 773	GRD161J-473	CARBON RESISTOR LCD DRIVE				
R 774	GRD161J-104	CARBON RESISTOR LCD DRIVE				
R 775	GRD161J-104	CARBON RESISTOR LCD DRIVE				
R 776	GRD161J-104	CARBON RESISTOR LCD DRIVE				
R 777	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 778	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 779	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 780	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 781	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 782	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 783	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 784	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 785	GRD161J-102	CARBON RESISTOR 10K 5% 1/6W				
R 786	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 787	GRD161J-102	CARBON RESISTOR 10K 5% 1/6W				
R 788	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 789	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 790	GRD161J-223	CARBON RESISTOR 2.2K 5% 1/6W				
R 791	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 792	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 793	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 794	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 795	GRD161J-331	CARBON RESISTOR S DATA EXPANDER SCK				
R 796	GRD161J-103	CARBON RESISTOR 10K 5% 1/6W				
R 797	GRD161J-222	CARBON RESISTOR STANDBY LED TU S DATA				
R 798	GRD161J-222	CARBON RESISTOR TU SCK				
R 911	GRD161J-471	CARBON RESISTOR 47K 5% 1/6W				

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 011111	BLOCK NO. 011111
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 011111	BLOCK NO. 011111
R 912	GRD161J-564	CARBON RESISTOR	560K 5% 1/6W				
R 913	GRD161J-331	CARBON RESISTOR	330 5% 1/6W				
R 914	GRD161J-472	CARBON RESISTOR	1.2				
R 915	GRD161J-223	CARBON RESISTOR	PULSE				
R 916	GRD161J-223	CARBON RESISTOR	SW				
R 917	GRD161J-223	CARBON RESISTOR	SW				
R 918	GRD161J-222	CARBON RESISTOR	SENSE				
R 919	GRD161J-102	CARBON RESISTOR	V.REF				
R 920	GRD161J-101	CARBON RESISTOR	DECUP				
R 922	GRD161J-332	CARBON RESISTOR	SAFETY				
R 923	GRD161J-682	CARBON RESISTOR	SAFETY				
R 931	GRD161J-390	CARBON RESISTOR	39 5% 1/6W				
R 932	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W				
R 941	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W				
R 942	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W				
R 951	GRD145J-470S	CARBON RESISTOR	47 5% 1/4W				
R 952	GRD145J-470S	CARBON RESISTOR	47 5% 1/4W				
R 961	GRD161J-221	CARBON RESISTOR	220 5% 1/6W				
R 962	GRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W				
R 971	GRZ0077-4R7X	FUSE RESISTOR	4.7 10W				
R7001	GRD161J-102	CARBON RESISTOR	TIMER				
R7002	GRD161J-102	CARBON RESISTOR	CLOCK				
R7003	GRD161J-122	CARBON RESISTOR	RESET TU				
R7004	GRD161J-152	CARBON RESISTOR	REV				
R7005	GRD161J-222	CARBON RESISTOR	STOP				
R7006	GRD161J-272	CARBON RESISTOR	CD FF				
R7007	GRD161J-392	CARBON RESISTOR	CD				
R7008	GRD161J-562	CARBON RESISTOR	MD/AUX				
R7009	GRD161J-103	CARBON RESISTOR	TAPE				
R7010	GRD161J-183	CARBON RESISTOR	F/M				
R7037	GRD161J-102	CARBON RESISTOR	CD SCK				
R7038	GRD161J-102	CARBON RESISTOR	CD SDATA				
R7039	GRD161J-563	CARBON RESISTOR	CH SAFE				
R7040	GRD161J-303Y	CARBON RESISTOR	CH SAFE				
R7041	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W				
R7042	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W				
R7043	GRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W				
R7044	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W				
R7047	GRD161J-562	CARBON RESISTOR	SDATA				
R7048	GRD161J-562	CARBON RESISTOR	SCK				
R7049	GRD161J-103	CARBON RESISTOR	HIDUB				
R7050	GRD161J-102	CARBON RESISTOR	HIDUB				
R7052	GRD161J-222	CARBON RESISTOR	REM OUT				
R7053	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W				
R7055	GRD161J-101	CARBON RESISTOR	100 5% 1/6W				
R7056	GRD161J-101	CARBON RESISTOR	100 5% 1/6W				
R7057	GRD161J-101	CARBON RESISTOR	100 5% 1/6W				
S 701	GSQ1A11-V072	TACT SW	TIMER				
S 702	GSQ1A11-V072	TACT SW	CLOCK				
S 703	GSQ1A11-V072	TACT SW	PRESET TUNING				
S 704	GSQ1A11-V072	TACT SW	REV				
S 705	GSQ1A11-V072	TACT SW	STOP				
S 706	GSQ1A11-V072	TACT SW	FF				
S 707	GSP1A11-V102	TACT SWITCH	CD				
S 708	GSP1A11-V102	TACT SWITCH	MD/AUX				

■ Head Amplifier Board

BLOCK NO. 02111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX		REF.	PARTS NO.	PARTS NAME	REMARKS	BLOCK NO. 02111111
C 901	QFLC1HJ-4732M	M.CAPACITOR	.047MF	5X 50V		C 3004	QCS11HJ-241	C.CAPACITOR	BEAT CUT(BIAS2)	
C 902	QFLC1HJ-4732M	M.CAPACITOR	.047MF	5X 50V		C 3005	QFG32AJ-2722N	PP CAPACITOR	BEAT CUT(BIAS2)P	
C 903	QFLC1HJ-4732M	M.CAPACITOR	.047MF	5X 50V		C 3006	QCVB1CN-103Y	C.CAPACITOR	BIAS2	
C 904	QFLC1HJ-4732M	M.CAPACITOR	.047MF	5X 50V		C 3007	QCS11HJ-331	C.CAPACITOR	BEAT CUT(BIAS1)	
CN310	VMCO13-020	CONNECTOR	TO MAIN			C 3008	QFPB2AJ-102	PP.CAPACITOR	BEAT CUT(BIAS1)P	
CN311	VMCO13-006	CONNECTOR	TO A HEAD			C 3009	QCVB1CN-103Y	C.CAPACITOR	BIAS	
CN312	VMCO13-006	CONNECTOR	TO B HEAD			C 3011	QFP32AJ-1532N	PP.CAPACITOR	TANK	
CN705	VMCO13-R07	CONNECTOR				C 3012	QET41AM-107	E.CAPACITOR	RF1	
CN706	VMCO29-PO3	CONNECTOR				C 3013	QC2025-155	ML.C.CAPACITOR	RF2	
CN707	VMCO29-S03K	CONNECTOR	TO CD SW			C 3015	QFV71HJ-103	FILM CAPACITOR	NF	
CN708	VMCO041-003	CONNECTOR	TO CD PWB			C 3016	QFN81HJ-562	M.CAPACITOR	5600PF 5% 50V	
CN751	VMCO314-S08	CONNECTOR	TO A MECHA			C 3017	QFN81HJ-562	M.CAPACITOR	5600PF 5% 50V	
CN752	VMCO314-S14	CONNECTOR	TO B MECHA			C 3018	QFVB1HJ-223	FILM CAPACITOR	0.022MF 5% 50V	
CN753	VMCO314-P14	CONNECTOR	TO MAIN			C 3019	QET41CM-106	E.CAPACITOR	VCC	
A C902	EMV5137-002	CONNECTOR	AS VMZ0049-B02			C 3021	QFLC1HJ-3932N	M.CAPACITOR	ALC LOW CUT	
A C903	EMV5138-002	CONNECTOR	AS VMZ0049-A02			C 3023	QET41AM-227	E.CAPACITOR	ALC ATC TIME	
C1001	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V			C 3024	QET41CM-226	E.CAPACITOR	FOR PB70 SW	
C1002	QCBB1HK-331Y	C.CAPACITOR				C 3025	QET41CM-476	E.CAPACITOR	RF	
C1003	QCBB1HK-271Y	C.CAPACITOR	BIAS TRAP			C 3027	QC20205-155	ML.C.CAPACITOR	VCC	
C1004	QCBB1HK-391Y	C.CAPACITOR	REC PEAK			C 3028	QC20205-155	ML.C.CAPACITOR	FOR FM	
C1005	QCXB1CM-122Y	C.CAPACITOR	-NF			C 7201	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C1007	QET41AM-227	E.CAPACITOR	NAB			C 7502	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C1008	QFLC1HJ-3332M	M.CAPACITOR	PB OUT			D 711	SL2-981C13-T2	LED 1 M	LED1	
C1009	QET41AM-475	E.CAPACITOR	DUB			D 712	SL2-981C13-T2	LED 1 M	LED2	
C1010	QFLC1HJ-4732M	M.CAPACITOR	REC OUT			D 713	SL2-981C13-T2	LED 1 M	LED3	
C1011	QFLC1HJ-6822M	M.CAPACITOR	REC NF			D 714	SL2-981C13-T2	LED 1 M	LED4	
C1012	QETC1HM-1042N	E.CAPACITOR	REC IN			A D 901	1N5401TM	SI DIODE	BRIDE	
C1013	QCBB1HK-2221Y	C.CAPACITOR	FOR BUZZ			A D 902	1N5401TM	SI DIODE	BRIGE	
C1014	QET41CM-106	E.CAPACITOR	-NF CUT			A D 903	1N5401TM	SI DIODE	BRIDE	
C1016	QET41AM-475	E.CAPACITOR	REC OUT			A D 904	1N5401TM	SI DIODE	BRIGE	
C1017	QCXB1CM-332Y	C.CAPACITOR	H1 CUT			D 3001	ISS133	SI DIODE	HIDUB SW(METAL)	
C1018	QFV71HJ-103	FILM CAPACITOR	FOR REC.F(HIDUB R.P.F(RECIN))			D 3002	ISS133	SI DIODE	HIDUB SW(CRO2)	
C1022	QCBB1HK-1832M	M.CAPACITOR				D 3003	ISS133	SI DIODE	REC.F.HI (CRO2)	
C1023	QFLC1HJ-2232M	M.CAPACITOR				D 3004	ISS133	SI DIODE	REC.F.HI (METAL)	
C2001	QCBB1HK-8221Y	C.CAPACITOR	820PF 10% 50V			D 3005	ISS133	SI DIODE	FOR CRO2	
C2002	QCBB1HK-331Y	C.CAPACITOR	BIAS IN			D 3006	ISS133	SI DIODE	HIDUB SW(METAL)	
C2003	QCBB1HK-271Y	C.CAPACITOR	BIAS TRAP			D 3007	ISS133	SI DIODE	HIDUB SW(CRO2)	
C2004	QCBB1HK-391Y	C.CAPACITOR	REC PEAK			D 3008	ISS133	SI DIODE	REC.F.HI (CRO2)	
C2005	QCXB1CM-122Y	C.CAPACITOR	B PEAK			D 3009	ISS133	SI DIODE	REC.F.HI (METAL)	
C2007	QET41AM-227	E.CAPACITOR	-NF			D 3010	ISS133	SI DIODE	REC.F HIDUB SW	
C2008	QFLC1HJ-3332M	M.CAPACITOR	NAB			D 7501	ISS133	SI DIODE		
C2009	QET41AM-475	E.CAPACITOR	PB OUT			D 7502	MT5.1JC	ZENER DIODE		
C2010	QFLC1HJ-4732M	M.CAPACITOR	DUB			D 7503	MT5.1JC	ZENER DIODE		
C2011	QFLC1HJ-6822M	M.CAPACITOR	REC NF			IC 306	NN7345K	IC		
C2012	QETC1HM-1042N	E.CAPACITOR	REC IN			IC 307	UPC330HA	IC		
C2013	QCBB1HK-2221Y	C.CAPACITOR	FOR BUZZ			A J 701	GP1532T	OPTICAL JACK		
C2014	QET41CM-106	E.CAPACITOR	-NF CUT			A J 901	QMCB001-E02H	AC SOCKET		
C2015	QET41AM-475	E.CAPACITOR	REC OUT			L 310	VQH1008-055	OSC COIL(BIAS)		
C2017	QCXB1CM-332Y	C.CAPACITOR	H1 CUT			L1001	VQP013-103	INDUCTOR		
C2018	QFV71HJ-103	FILM CAPACITOR	FOR REC.F(HIDUB R.P.F(RECIN))			L1002	VQP028-562	PEAKING		
C2022	QFLC1HJ-1832M	M.CAPACITOR				L2001	VQP013-103	INDUCTOR		
C3001	QCS31HK-1212	C.CAPACITOR	BEAT CUT(BIAS3)			L2002	VQP028-562	INDUCTOR		
C3002	QCS31HK-241	C.CAPACITOR	BS			L3001	VQP033-1002	INDUCTOR		
C3003	QCVB1CN-103Y	C.CAPACITOR	BIAS			L3002	VQP033-3302	INDUCTOR		

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q	711	DTC114TSTP	TRANSISTOR	LED1		R1027	QRD161J-331	CARBON RESISTOR	FOR REC-F(HIDUB		
Q	712	DTC114TSTP	TRANSISTOR	LED2		R1028	QRD161J-122	CARBON RESISTOR	MS OUT		
Q	713	DTC114TSTP	TRANSISTOR	LED3		R2001	QRD161J-473	CARBON RESISTOR	FOR HEAD-B		
Q	714	DTC114TSTP	TRANSISTOR	LED4		R2003	QRD161J-102	CARBON RESISTOR	BIAS IN		
Q1001	DTC144TS	TRANSISTOR	DUB SW			R2004	QRD161J-273	CARBON RESISTOR	FOR HEAD-A		
Q1002	DTC144TS	TRANSISTOR	EQ SW(HIDUB)			R2005	QRD161J-220	CARBON RESISTOR	FOR EQ		
Q1003	DTC144ES	TRANSISTOR	REC-F SW(CRO2)			R2006	QRD161J-392	CARBON RESISTOR	FOR EQ		
Q1004	DTC144ES	TRANSISTOR	REC-F SW(METAL)			R2007	QRD161J-123	CARBON RESISTOR	FOR PB OUT		
Q1005	DTC144WSTP	TRANSISTOR	REC-F SW(HIDUB)			R2009	QRD161J-222	CARBON RESISTOR	FOR EQ(PB70)		
Q1006	2SC3330	TRANSISTOR	DUB SW			R2010	QRD161J-152	CARBON RESISTOR	FOR EQ(HIDUB)		
Q2001	DTC144TSTP	TRANSISTOR	EQ SW(HIDUB)			R2011	QRD161J-222	CARBON RESISTOR	FOR EQ		
Q2002	DTC144TS	TRANSISTOR	REC-F SW(CRO2)			R2012	QRD161J-391	CARBON RESISTOR	REC NF		
Q2003	DTC144ES	TRANSISTOR	REC-F SW(HIDUB)			R2013	QRD167J-562	CARBON RESISTOR	REC IN		
Q2004	DTC144ES	TRANSISTOR	REC MUTE SW			R2014	QRD161J-122	CARBON RESISTOR	FOR REC-F		
Q2005	DTC144WSTP	TRANSISTOR	DUB SW			R2017	QRD167J-682	CARBON RESISTOR	FOR REC-L(CRO2)		
Q2006	2SC3330	TRANSISTOR	REC MUTE SW			R2019	QRD161J-392	CARBON RESISTOR	FOR REC-L(METAL)		
Q3001	2SC2785	TRANSISTOR	BIAS3			R2021	QRD167J-332	CARBON RESISTOR	FOR REC-L(HI/70		
Q3002	2SC2785	TRANSISTOR	BIAS3			R2022	QRD161J-302	CARBON RESISTOR	R.P.F (REC IN)		
Q3003	2SC2785	TRANSISTOR	BIAS2			R2023	QRD161J-152	CARBON RESISTOR	REC IN		
Q3004	2SC2785	TRANSISTOR	BIAS2			R2024	QRD161J-333	CARBON RESISTOR	REC MUTE		
Q3005	2SC2785	TRANSISTOR	BIAS1			R2025	QRD161J-102	CARBON RESISTOR	REC MUTE		
Q3006	2SC2785	TRANSISTOR	BIAS1			R2027	QRD161J-331	CARBON RESISTOR	FOR REC-F(HIDUB		
Q3007	2SD2144S(VW)	TRANSISTOR				R2028	QRD161J-122	CARBON RESISTOR	MS OUT		
Q3008	2SD2144S(VW)	TRANSISTOR				R3002	QRD161J-474	CARBON RESISTOR	BIAS POINT		
Q3009	2SC2001(L,K)	TRANSISTOR	BIAS SW			R3003	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
Q3010	2SC2785	TRANSISTOR				R3004	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
Q3011	2SC2001(L,K)	TRANSISTOR	FOR CRO2			R3005	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
Q3012	DTC144TS	TRANSISTOR	FOR METAL			R3006	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
▲ Q7501	SB566(B,C)	TRANSISTOR	HIDUB SW			R3007	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
Q7502	2SC2785	TRANSISTOR	SOLE			R3008	QRD161J-123	CARBON RESISTOR	1.5K 5% 1/6W		
▲ Q7503	SB566(B,C)	TRANSISTOR	SOLE			R3009	QRD161J-3R3	CARBON RESISTOR	RE		
Q7504	2SC2785	TRANSISTOR	FOR HEAD-B			R3010	QRD161J-181	CARBON RESISTOR	NOM		
Q7505	DTC144ES	TRANSISTOR	FOR METAL			R3011	QRD161J-680	CARBON RESISTOR	CROM		
Q7506	DTC144ES	TRANSISTOR	MOTOR SW			R3012	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
Q7507	DTC144TS	TRANSISTOR				R3013	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W		
R1001	QRD161J-473	CARBON RESISTOR	FOR HEAD-B			R3014	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R1002	QRD161J-102	CARBON RESISTOR	BIAS IN			R3015	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W		
R1003	QRD161J-133	CARBON RESISTOR	BIAS TRAP			R3016	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R1004	QRD161J-273	CARBON RESISTOR	FOR HEAD-A			R3017	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R1005	QRD161J-220	CARBON RESISTOR	FOR EQ			R3019	QRD161J-221	CARBON RESISTOR	VCC		
R1006	QRD161J-392	CARBON RESISTOR	FOR EQ			R3020	QRD161J-102	CARBON RESISTOR	A/B SW		
R1007	QRD161J-123	CARBON RESISTOR	PB OUT			R3022	QRD161J-103	CARBON RESISTOR	REC-F SW(CRO2)		
R1009	QRD161J-222	CARBON RESISTOR	FOR EQ(HIDUB)			R3023	QRD161J-103	CARBON RESISTOR	REC-F SW(METAL)		
R1010	QRD161J-152	CARBON RESISTOR	PB OUT			R3024	QRD161J-103	CARBON RESISTOR	REC-F SW(HI/70)		
R1011	QRD161J-222	CARBON RESISTOR				R3025	QRD161J-393	CARBON RESISTOR	ALC ATC TIME		
R1012	QRD161J-391	CARBON RESISTOR	REC NF			R3027	QRD161J-101	CARBON RESISTOR	VCC		
R1014	QRD161J-122	CARBON RESISTOR	FOR REC-F			R3028	QRD161J-181	CARBON RESISTOR	NORMAL		
R1017	QRD167J-682	CARBON RESISTOR	FOR REC-F(CRO2)			R3029	QRD161J-100	CARBON RESISTOR	FOR FM(B4110)		
R1019	QRD161J-392	CARBON RESISTOR	FOR REC-L(METAL)			R7011	QRD161J-391	CARBON RESISTOR	LED1		
R1021	QRD167J-332	CARBON RESISTOR	FOR REC-L(HI/70			R7015	QRD161J-102	CARBON RESISTOR	POWER		
R1022	QRD161J-302	CARBON RESISTOR	R.P.F (REC IN)			R7016	QRD161J-102	CARBON RESISTOR	VOL-		
R1023	QRD161J-152	CARBON RESISTOR	REC IN			R7017	QRD161J-122	CARBON RESISTOR	ONE TOUCH		
R1024	QRD161J-333	CARBON RESISTOR	REC MUTE			R7018	QRD161J-152	CARBON RESISTOR	PAUSE		
R1025	QRD161J-102	CARBON RESISTOR	REC MUTE			R7019	QRD161J-222	CARBON RESISTOR	DUB SPEED		

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q	711	DTC114TSTP	TRANSISTOR	LED1		R1027	QRD161J-331	CARBON RESISTOR	FOR REC-F(HIDUB		
Q	712	DTC114TSTP	TRANSISTOR	LED2		R1028	QRD161J-122	CARBON RESISTOR	MS OUT		
Q	713	DTC114TSTP	TRANSISTOR	LED3		R2001	QRD161J-473	CARBON RESISTOR	FOR HEAD-B		
Q	714	DTC114TSTP	TRANSISTOR	LED4		R2003	QRD161J-102	CARBON RESISTOR	BIAS IN		
Q1001	DTC144TS	TRANSISTOR	DUB SW			R2004	QRD161J-273	CARBON RESISTOR	FOR HEAD-A		
Q1002	DTC144TS	TRANSISTOR	EQ SW(HIDUB)			R2005	QRD161J-220	CARBON RESISTOR	FOR EQ		
Q1003	DTC144ES	TRANSISTOR	REC-F SW(CRO2)			R2006	QRD161J-392	CARBON RESISTOR	FOR EQ		
Q1004	DTC144ES	TRANSISTOR	REC-F SW(METAL)			R2007	QRD161J-123	CARBON RESISTOR	PB OUT		
Q1005	DTC144WSTP	TRANSISTOR	REC-F SW(HIDUB)			R2009	QRD161J-222	CARBON RESISTOR	FOR EQ(PB70)		
Q1006	2SC3330	TRANSISTOR	DUB SW			R2010	QRD161J-152	CARBON RESISTOR	FOR EQ(HIDUB)		
Q2001	DTC144TSTP	TRANSISTOR	EQ SW(HIDUB)			R2011	QRD161J-222	CARBON RESISTOR	FOR EQ		
Q2002	DTC144TS	TRANSISTOR	REC-F SW(CRO2)			R2012	QRD161J-391	CARBON RESISTOR	REC NF		
Q2003	DTC144ES	TRANSISTOR	REC-F SW(HIDUB)			R2013	QRD167J-562	CARBON RESISTOR	REC IN		
Q2004	DTC144ES	TRANSISTOR	REC MUTE SW			R2014	QRD161J-122	CARBON RESISTOR	FOR REC-F		
Q2005	DTC144WSTP	TRANSISTOR	DUB SW			R2017	QRD167J-682	CARBON RESISTOR	FOR REC-L(CRO2)		
Q2006	2SC3330	TRANSISTOR	REC MUTE SW			R2019	QRD161J-392	CARBON RESISTOR	FOR REC-L(METAL)		
Q3001	2SC2785	TRANSISTOR	BIAS3			R2021	QRD167J-332	CARBON RESISTOR	FOR REC-L(HI/70		
Q3002	2SC2785	TRANSISTOR	BIAS3			R2022	QRD161J-302	CARBON RESISTOR	R.P.F (REC IN)		
Q3003	2SC2785	TRANSISTOR	BIAS2			R2023	QRD161J-152	CARBON RESISTOR	REC IN		
Q3004	2SC2785	TRANSISTOR	BIAS2			R2024	QRD161J-333	CARBON RESISTOR	REC MUTE		
Q3005	2SC2785	TRANSISTOR	BIAS1			R2025	QRD161J-102	CARBON RESISTOR	REC MUTE		
Q3006	2SC2785	TRANSISTOR	BIAS1			R2027	QRD161J-331	CARBON RESISTOR	FOR REC-F(HIDUB		
Q3007	2SD2144S(VW)	TRANSISTOR				R2028	QRD161J-122	CARBON RESISTOR	CARBON RESISTOR		
Q3008	2SD2144S(VW)	TRANSISTOR				R3002	QRD161J-474	CARBON RESISTOR	MS OUT		
Q3009	2SC2001(L,K)	TRANSISTOR	BIAS SW			R3003	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
Q3010	2SC2785	TRANSISTOR				R3004	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
Q3011	2SC2001(L,K)	TRANSISTOR	FOR CRO2			R3005	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
Q3012	DTC144TS	TRANSISTOR	FOR METAL			R3006	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
▲ Q7501	SB566(B,C)	TRANSISTOR	HIDUB SW			R3007	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W		
Q7502	2SC2785	TRANSISTOR	SOLE			R3008	QRD161J-123	CARBON RESISTOR	1.5K 5% 1/6W		
▲ Q7503	SB566(B,C)	TRANSISTOR	SOLE			R3009	QRD161J-3R3	CARBON RESISTOR	RE		
Q7504	2SC2785	TRANSISTOR	FOR HEAD-B			R3010	QRD161J-181	CARBON RESISTOR	NOM		
Q7505	DTC144ES	TRANSISTOR	FOR METAL			R3011	QRD161J-680	CARBON RESISTOR	CROM		
Q7506	DTC144ES	TRANSISTOR	MOTOR SW			R3012	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
Q7507	DTC144TS	TRANSISTOR				R3013	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W		
R1001	QRD161J-473	CARBON RESISTOR	FOR HEAD-B			R3014	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R1002	QRD161J-102	CARBON RESISTOR	BIAS IN			R3015	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W		
R1003	QRD161J-133	CARBON RESISTOR	BIAS TRAP			R3016	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R1004	QRD161J-273	CARBON RESISTOR	FOR HEAD-A			R3017	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R1005	QRD161J-220	CARBON RESISTOR	FOR EQ			R3019	QRD161J-221	CARBON RESISTOR	VCC		
R1006	QRD161J-392	CARBON RESISTOR	FOR EQ			R3020	QRD161J-102	CARBON RESISTOR	A/B SW		
R1007	QRD161J-123	CARBON RESISTOR	PB OUT			R3022	QRD161J-103	CARBON RESISTOR	REC-F SW(CRO2)		
R1009	QRD161J-222	CARBON RESISTOR	FOR EQ(HIDUB)			R3023	QRD161J-103	CARBON RESISTOR	REC-F SW(METAL)		
R1010	QRD161J-152	CARBON RESISTOR	PB OUT			R3024	QRD161J-103	CARBON RESISTOR	REC-F SW(HI/70)		
R1011	QRD161J-222	CARBON RESISTOR				R3025	QRD161J-393	CARBON RESISTOR	ALC ATC TIME		
R1012	QRD161J-391	CARBON RESISTOR	REC NF			R3027	QRD161J-101	CARBON RESISTOR	VCC		
R1014	QRD161J-122	CARBON									

Tuner Board

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. [REILLI]
R7020	QRD161J-272	CARBON RESISTOR	REVERSE MODE			
R7021	QRD161J-392	CARBON RESISTOR	DECK VOL+			
R7022	QRD161J-562	CARBON RESISTOR	SOUND			
R7023	QRD161J-103	CARBON RESISTOR	S BASS			
R7024	QRD161J-183	CARBON RESISTOR	SURROUND			
R7025	QRD161J-473	CARBON RESISTOR	LONG PLAY			
R7026	QRD161J-102	CARBON RESISTOR	CD 1			
R7027	QRD161J-102	CARBON RESISTOR	CD 2			
R7028	QRD161J-122	CARBON RESISTOR	CD 3			
R7029	QRD161J-152	CARBON RESISTOR	REPEAT			
R7030	QRD161J-222	CARBON RESISTOR	CD EJECT 3			
R7031	QRD161J-272	CARBON RESISTOR	CD EJECT 2			
R7032	QRD161J-392	CARBON RESISTOR	CD EJECT 1			
R7033	QRD161J-562	CARBON RESISTOR	CD EJECT 1			
R7034	QRD161J-393	CARBON RESISTOR	VER			
R7501	QRD161J-151	CARBON RESISTOR	150 5% 1/6W			
R7502	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			
R7503	QRD161J-151	CARBON RESISTOR	150 5% 1/6W			
R7504	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			
R7505	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R7506	QRD161J-133	CARBON RESISTOR	13K 5% 1/6W			
R7507	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W			
R7508	QRD161J-123	CARBON RESISTOR	TAPE 1			
R7509	QRD161J-183	CARBON RESISTOR	TAPE 2			
R7510	QRD161J-433	CARBON RESISTOR	TAPE 2			
R7511	QRD161J-183	CARBON RESISTOR	TAPE 1			
R7512	QRD161J-123	CARBON RESISTOR	TAPE 1			
R7513	QRD161J-203	CARBON RESISTOR	TAPE 1			
R7514	QRD161J-123	CARBON RESISTOR	TAPE 3			
R7515	QRD161J-183	CARBON RESISTOR	TAPE 3			
R7516	QRD161J-433	CARBON RESISTOR	TAPE 3			
S715	QSQ1A11-V082	TACT SW	POREW			
S716	QSQ1A11-V082	TACT SW	VOL -			
S717	QSQ1A11-V082	TACT SW	ONE TOUCH			
S718	QSQ1A11-V082	TACT SW	REC PAUSE			
S719	QSQ1A11-V082	TACT SW	DUB SPEED			
S720	QSQ1A11-V082	TACT SW	REVERSE MODE			
S721	QSQ1A11-V082	TACT SW	DECK			
S722	QSQ1A11-V082	TACT SW	VOL +			
S723	QSQ1A11-V082	TACT SW	SOUND			
S724	QSQ1A11-V082	TACT SW	S BASS			
S725	QSQ1A11-V082	TACT SW	SURROUND			
S726	QSP1A11-V102	TACT SWITCH	LONG PLAY			
S727	QSP1A11-V102	TACT SWITCH	CD 1			
S728	QSP1A11-V102	TACT SWITCH	CD 2			
S729	QSP1A11-V102	TACT SWITCH	CD 3			
S730	QSP1A11-V102	TACT SWITCH	REPEAT			
S731	QSP1A11-V102	TACT SWITCH	CD EJECT 3			
S732	QSP1A11-V102	TACT SWITCH	CD EJECT 2			
S733	QSP1A11-V102	TACT SWITCH	CD EJECT 1			
VR101	QVPA601-503A	V-RESISTOR	BIAS CURR ADJ			
VR202	QVPA601-503A	V-RESISTOR	BIAS CURR ADJ			
VR750	QVZ3523-103A	V-RESISTOR	SPEED ADJ			

A	REF.	PARTS NO.	PARTS NAME	SUFFIX	BLOCK NO. [REILLI]	SUF FIX
	BP	VBP4M3B-0072	P FILTER			
C	3	QCSB1HK-2R6Y	C. CAPACITOR	5.6PF 10% 50V		
C	6	QCVB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		
C	7	QCS11HJ-200	C. CAPACITOR	.20PF 5% 50V		
C	9	QCS11HJ-120	C. CAPACITOR	.12PF 5% 50V		
C	13	QCC11EM-223V	C. CAPACITOR	.022MF 20% 25V		
C	16	QCVB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		
C	21	QCC11EM-473V	C. CAPACITOR	.047MF 20% 25V		
C	22	QF14HJ-431	PP. CAPACITOR	.430PF 5% 50V		
C	23	QC130CH-120Y	C. CAPACITOR	.12PF 5% 50V		
C	31	QCBB1HK-102Y	C. CAPACITOR	.1000PF 10% 50V		
C	32	QCVB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		
C	33	QE141AM-107	E. CAPACITOR	.100MF 20% 10V		
C	35	QCVB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		
C	36	QE141HM-475	E. CAPACITOR	=R19		
C	37	QCBB1HK-102Y	C. CAPACITOR	.1000PF 10% 50V		
C	40	QE141HM-105	E. CAPACITOR	.1-0MF 20% 50V		
C	41	QE141CM-106	E. CAPACITOR	.10MF 20% 16V		
C	42	QCC11EM-473V	C. CAPACITOR	.047MF 20% 25V		
C	43	QCVB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		
C	44	QE141HM-104N	E. CAPACITOR	.10MF 20% 50V		
C	45	QE141HM-474	E. CAPACITOR	.47MF 20% 50V		
C	47	QCC11EM-123V	C. CAPACITOR	.012MF 20% 25V		
C	48	QC130CH-123V	C. CAPACITOR	.012MF 20% 25V		
C	49	QE141HM-104N	E. CAPACITOR	.10MF 20% 50V		
C	50	QE141HM-104N	E. CAPACITOR	.10MF 20% 50V		
C	51	QCBB1HK-681Y	C. CAPACITOR	.680PF 10% 50V		
C	52	QCBB1HK-102Y	C. CAPACITOR	.1000PF 10% 50V		
C	54	QCBB1HK-102Y	C. CAPACITOR	.1000PF 10% 50V		
C	60	QCBB1HK-102Y	C. CAPACITOR	.1000PF 10% 50V		
C	61	QE141AM-102	E. CAPACITOR	.10MF 20% 50V		
C	62	QC130CH-120Y	C. CAPACITOR	.12PF 5% 50V		
C	63	QCBB1HK-102Y	C. CAPACITOR	.1000PF 10% 50V		
C	64	QC130CH-120Y	C. CAPACITOR	.12PF 5% 50V		
C	65	QCBB1HK-102Y	C. CAPACITOR	.1000PF 10% 50V		
C	66	QCBB1HK-151Y	C. CAPACITOR	.150PF 10% 50V		
C	68	QCBB1HK-151Y	C. CAPACITOR	.150PF 10% 50V		
C	69	QCXB1CM-222Y	C. CAPACITOR	.2200PF 20% 16V		
C	70	QE101HM-225IN	E. CAPACITOR	.2.2MF 20% 50V		
C	71	QE101HM-335Z	E. CAPACITOR	.3.3MF 20% 50V		
C	77	QCBB1HK-102Y	C. CAPACITOR	.1000PF 10% 50V		
CF	1	VCFM3B-106	C. FILTER			
CF	3	VCF122-117Z	C FILTER			
CF	4	CMU2-456A05	CERA LOCK			
CN	1	VMCC163-009	CONNECTOR			
D	1	SV203SPA-AB-AL	VARI CAP			
D	2	SV203SPA-AB-AL	VARI CAP			
D	5	1SS133	SI DIODE			
D	6	1SS133	SI DIODE			
D	8	SVC144-AA	VARI CAP			
D	12	DSK10C-E	DIODE			
IC	2	TA2008N	IC			
IC	3	LC7136	IC			
L	1	VQFB20-019	OSC COIL			
L	2	VQCL505-002T	RF COIL			

CD Amplifier Board

BLOCK NO. [04111111]

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
L	3	VQB008M-506	BAR ANTENA	MW RF		C	501	QCB81HK-821Y	C.CAPACITOR	820PF 10% 50V	
L	4	VQM7U03-404	OSC COIL (MW)	MW OSC		C	503	QCB81CN-103Y	C.CAPACITOR	.010MF 30% 16V	
L	7	VQP0018-221	INDUCTOR			C	504	QE141CM-106	E.CAPACITOR	10MF 20% 16V	
L	12	VO3047-16	INDUCTOR			C	511	QCS31HJ-3R9	C.CAPACITOR	5.9PF 10% 50V	
R	1	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		C	512	QCS31HJ-270Z	C.CAPACITOR	27PF 5% 50V	
R	2	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W		C	513	QFLC1HJ-1042M	M.CAPACITOR	.10MF 5% 50V	
R	3	GRD161J-100	CARBON RESISTOR	10 5% 1/6W		C	514	QFLC1HJ-4722M	M.CAPACITOR	.4700PF 10% 50V	
R	7	GRD161J-104	CARBON RESISTOR	100K 5V 1/6W		C	521	QCB81HK-331Y	C.CAPACITOR	3300PF 10% 50V	
R	9	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		C	522	QFLC1HJ-433M	M.CAPACITOR	.047MF 5% 50V	
R	13	GRD161J-104	CARBON RESISTOR	100K 5X 1/6W		C	523	QEY81HJ-154	FILM CAPACITOR	.15MF 5% 50V	
R	18	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		C	524	QEPC1EM-4732M	NP-E.CAPACITOR	.47MF 20% 25V	
R	20	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		C	529	QEY11AM-3332M	E.CAPACITOR	33MF 20% 10V	
R	28	GRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W		C	531	QCB81CM-822Y	C.CAPACITOR	8200PF 20% 16V	
R	30	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W		C	541	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V	
R	31	GRD161J-123	CARBON RESISTOR	12K 5% 1/6W		C	542	QFLC1HJ-1032M	M.CAPACITOR	.010MF 5% 50V	
R	32	GRD161J-223	CARBON RESISTOR	#B121		C	543	QFLC1HJ-3922M	M.CAPACITOR	.039MF 5% 50V	
R	33	GRD161J-101	CARBON RESISTOR	100 5% 1/6W		C	545	QEN61HM-1052	NP-E.CAPACITOR	1.0MF 20% 50V	
R	34	GRD161J-183	CARBON RESISTOR	18K 5% 1/6W		C	546	QFLC1HJ-2222M	M.CAPACITOR	.022MF 5% 50V	
R	35	GRD161J-183	CARBON RESISTOR	18K 5% 1/6W		C	561	QEY11AM-476	E.CAPACITOR	.47MF 20% 10V	
R	37	GRD161J-560	CARBON RESISTOR	5.6 5% 1/6W		C	562	QEY11HM-475	E.CAPACITOR	.47MF 20% 50V	
R	44	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		C	581	QEY11AM-477	E.CAPACITOR	.470MF 20% 10V	
R	46	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W		C	582	QEK11CM-476	E.CAPACITOR	.47MF 20% 16V	
R	47	GRD161J-471	CARBON RESISTOR	470 5% 1/6W		C	591	VCP0012-1052	C.CAPACITOR		
R	48	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		C	592	VCP0012-1052	C.CAPACITOR		
R	52	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W		C	593	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
R	54	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		C	599	QEY11AM-102M	E.CAPACITOR	.10MF 20% 10V	
R	55	GRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W		C	601	QCB81HK-151Y	C.CAPACITOR		
R	56	GRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W		C	602	QCS31HJ-120	C.CAPACITOR		
R	57	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		C	603	QFV11HJ-1042M	FILM CAPACITOR		
R	59	GRD161J-102	CARBON RESISTOR	=B113		C	604	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
R	60	GRD161J-102	CARBON RESISTOR	=B114		C	605	QCW11CN-103Y	C.CAPACITOR	.010MF 30% 16V	
R	61	GRD161J-102	CARBON RESISTOR	=B108		C	606	QCC11EM-473N	C.CAPACITOR	.047MF 20% 25V	
R	64	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		C	607	QFV11HJ-1042M	C.CAPACITOR	.010MF 5% 50V	
T	2	VQT7A21-112	I.F.T.			C	608	QCC11EM-473N	C.CAPACITOR	.047MF 20% 25V	
TC	2	QAT3722-2.002M	T.CAPACITOR	MW RF		C	609	QFV11HJ-1042M	FILM CAPACITOR	.10MF 5% 50V	
TP	1	VM20015-002	POST PIN	TO ROD ANT		C	611	QCS31HJ-101	C.CAPACITOR	100PF 5% 50V	
TP	2	VM20015-002	POST PIN	GND		C	612	QFLC1HJ-1032M	M.CAPACITOR	.010MF 5% 50V	
X	1	VCX5044-001	CRYSTAL			C	613	QFLC1HJ-1022M	M.CAPACITOR	.010MF 5% 50V	
						C	614	QFLC1HJ-332M	M.CAPACITOR	3300PF 5% 50V	
						C	615	QFLC1HJ-332M	M.CAPACITOR	3300PF 5% 50V	
						C	616	QCC11EM-103Y	C.CAPACITOR	FOR EMC	
						C	631	QEKG1AM-107M	E.CAPACITOR	100MF 20% 10V	
						C	632	QEKG1AM-107	E.CAPACITOR	100MF 20% 6.3V	
						C	651	QEKG1CM-107M	E.CAPACITOR	100MF 20% 10V	
						C	652	QEKG1CM-226	E.CAPACITOR	22MF 20% 16V	
						C	661	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V	
						C	662	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V	
						C	663	QCS31HJ-270Z	C.CAPACITOR	27PF 5% 50V	
						C	671	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V	
						C	672	QCS31HJ-270Z	C.CAPACITOR	100PF 10% 50V	
CN501		EMV7171-115R				C	673	QCS31HJ-270Z	15FFC CONNECTOR	TO PICK UP	
CN502		VMC0075-006							TO MECHA		
CN503		VMC0163-R07							TO AMP		
CN501		VMC0163-R09							TO MICOM		

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	BLOCK NO. 0411111
CN602	VMC0041-003	CONNECTOR	TO DIGITAL OUT			
IC501	TAB191F	IC	SERVO LSI			
IC502	BA6897FP	IC	POWER DRIVER			
IC601	TC9284BF	IC	1 CHIP PROCESE			
IC604	BA15218N	IC	L.P.F			
K601	VQZ004B-009	INDUCTOR	(CB674)			
Q501	2SA1309(RS)	TRANSISTOR	LASER APC			
Q501	2SA952(L,K)	TRANSISTOR	5V REGULATOR			
Q502	2SA952(L,K)	TRANSISTOR	2VREF			
R502	GRD161J-103	CARBON RESISTOR	120K 5% 1/6W			
R504	GRD161J-202	CARBON RESISTOR	10K 5% 1/6W			
R505	GRD161J-100	CARBON RESISTOR	2.0K 5% 1/6W			
R506	GRD161J-101	CARBON RESISTOR	10K 5% 1/6W			
R507	GRD161J-120	CARBON RESISTOR	100 5% 1/6W			
R511	GRD161J-183	CARBON RESISTOR	1.8K 5% 1/6W			
R512	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W			
R513	GRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W			
R514	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			
R515	GRD161J-103	CARBON RESISTOR	12.5K 1/6W			
R516	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R517	GRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W			
R518	GRD161J-335YT	CARBON RESISTOR	3.3M 5% 1/6W			
R521	GRD161J-154	CARBON RESISTOR	150K 5% 1/6W			
R522	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W			
R523	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			
R524	GRD161J-331	CARBON RESISTOR	3.30 5% 1/6W			
R525	GRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W			
R529	GRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W			
R531	GRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W			
R532	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W			
R533	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W			
R541	GRD161J-123	CARBON RESISTOR	12K 5% 1/6W			
R542	GRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W			
R543	GRD161J-473	CARBON RESISTOR	4.7K 5% 1/6W			
R544	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W			
R545	GRD161J-103	CARBON RESISTOR	10K 5% 1/6W			
R548	GRD161J-153	CARBON RESISTOR	15K 5% 1/6W			
R549	GRD161J-821	CARBON RESISTOR	820 5% 1/6W			
R550	GRD161J-104	CARBON RESISTOR	100K 5% 1/6W			
R551	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W			
R552	GRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W			
R553	GRD161J-821	CARBON RESISTOR	820 5% 1/6W			
R555	GRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W			
R559	GRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W			
R561	GRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W			
R562	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W			
R563	GRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W			
R564	GRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W			
R565	GRD161J-683	CARBON RESISTOR	68K 5% 1/6W			
R566	GRD161J-273	CARBON RESISTOR	27K 5% 1/6W			
R583	GRD161J-101	CARBON RESISTOR	100 5% 1/6W			
R584	GRD161J-331	CARBON RESISTOR	330 5% 1/6W			
R591	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W			
R601	GRD161J-223	CARBON RESISTOR	FITZ			

A	REF.	PARTS NO.	PARTS NAME	PARTS NO.	NAME	REMARKS	SUFFIX	BLOCK NO. 0411111
R602	GRD161J-272	CARBON RESISTOR	1.0K 5% 1/6W					
R611	GRD161J-102	CARBON RESISTOR	10K 5% 1/6W					
R612	GRD161J-103	CARBON RESISTOR	220K 5% 1/6W					
R613	GRD161J-224	CARBON RESISTOR	47K 5% 1/6W					
R614	GRD161J-473	CARBON RESISTOR	2.2M 5% 1/6W					
R615	GRD161J-225	CARBON RESISTOR	3.3K 5% 1/6W					
R616	GRD161J-333	CARBON RESISTOR	82 5% 1/6W					
R651	GRD161J-820	CARBON RESISTOR	47K 5% 1/6W					
R652	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R653	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R661	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R662	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R663	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R664	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R665	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W					
R666	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W					
R671	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R672	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R673	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R674	GRD161J-473	CARBON RESISTOR	47K 5% 1/6W					
R675	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W					
R676	GRD161J-223	CARBON RESISTOR	22K 5% 1/6W					
R691	GRD161J-102	CARBON RESISTOR	FT2					
R692	GRD161J-102	CARBON RESISTOR	FT2					
R693	GRD161J-102	CARBON RESISTOR	FT2					
R694	GRD161J-102	CARBON RESISTOR	FT2					
R695	GRD161J-102	CARBON RESISTOR	FT2					
R696	GRD161J-102	CARBON RESISTOR	FT2					
R697	GRD161J-102	CARBON RESISTOR	FT2					
R698	GRD161J-471	CARBON RESISTOR	DIGITAL OUT					
VR501	QV2523-1544Z	V-RESISTOR	TE OFFSET ADJ					
X 601	ECX0169-344EF	RESONATOR I.M.	16.93MHZ					

■ CD Traverse Mechanism Control Board

BLOCK NO. [RE] [RE]

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	801	GEK51AM-107	E CAPACITOR	100MF 20% 10V	
C	802	GEK41EM-475	E-CAPACITOR	4.7MF 20% 25V	
C	803	QFLC1HJ-1022M	M.CAPACITOR	1000PF 5% 50V	
C	804	QCFB1H2-1042Y	M.CAPACITOR		
C	805	QCVB1CM-103Y	C.CAPACITOR	-10MF +80:-20%	
C	806	GEK41CM-476	C.CAPACITOR	-010MF 20% 16V	
C	807	GEK41CM-476	E-CAPACITOR	47MF 20% 16V	
C	808	QFLC1HJ-1022M	E.CAPACITOR	47MF 20% 16V	
C	810	QCZ0205-155	M.L-C.CAPACITOR	1000PF 5% 50V	
C	811	QCZ0205-155	ML-C.CAPACITOR	1.5MF	
C	813	QCVB1CM-103Y	C.CAPACITOR	-010MF 20% 16V	
C	821	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
CN	801	VMC0163-R10	CONNECTOR	TO MICON	
CN	802	VMC02B9-P07	CONNECTOR	TO SWITCH PWB	
CN	803	VMC0324-12310	CONNECTOR	TO CAM SW PWB	
IC	801	UPD6561GB-208	IC		
IC	802	TAB4095	IC		
IC	803	TAB4095	IC		
A	801	VQP0018-100	INDUCTOR		
L	802	VQP0033-100Z	INDUCTOR		
L	803	VQP0033-100Z	INDUCTOR		
L	804	VQP0033-100Z	INDUCTOR		
R	805	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	806	QRD161J-71	CARBON RESISTOR	470 5% 1/6W	
R	807	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R	808	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	810	QRD161J-684	CARBON RESISTOR	680K 5% 1/6W	
R	811	GRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
R	813	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	814	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	815	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	816	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	817	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	818	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	819	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	820	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	821	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	822	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	823	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	824	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	825	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	826	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	827	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	828	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	829	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	830	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	832	GRD161J-181	CARBON RESISTOR	180 5% 1/6W	
R	833	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	834	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	839	GRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R	840	GRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	

■ CD Tray Select Switch Board

BLOCK NO. [RE] [RE]

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	801	GEK51AM-107	E CAPACITOR	100MF 20% 10V	
C	802	GEK41EM-475	E-CAPACITOR	4.7MF 20% 25V	
C	803	QFLC1HJ-1022M	M.CAPACITOR	1000PF 5% 50V	
C	804	QCFB1H2-1042Y	M.CAPACITOR		
C	805	QCVB1CM-103Y	C.CAPACITOR	-10MF +80:-20%	
C	806	GEK41CM-476	C.CAPACITOR	-010MF 20% 16V	
C	807	GEK41CM-476	E-CAPACITOR	47MF 20% 16V	
C	808	QFLC1HJ-1022M	E.CAPACITOR	47MF 20% 16V	
C	810	QCZ0205-155	M.L-C.CAPACITOR	1000PF 5% 50V	
C	811	QCZ0205-155	ML-C.CAPACITOR	1.5MF	
C	813	QCVB1CM-103Y	C.CAPACITOR	-010MF 20% 16V	
C	821	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
CN	801	VMC0163-R10	CONNECTOR	TO MICON	
CN	802	VMC02B9-P07	CONNECTOR	TO SWITCH PWB	
CN	803	VMC0324-12310	CONNECTOR	TO CAM SW PWB	
IC	801	UPD6561GB-208	IC		
IC	802	TAB4095	IC		
IC	803	TAB4095	IC		
A	801	VQP0018-100	INDUCTOR		
L	802	VQP0033-100Z	INDUCTOR		
L	803	VQP0033-100Z	INDUCTOR		
L	804	VQP0033-100Z	INDUCTOR		
R	805	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	806	QRD161J-71	CARBON RESISTOR	470 5% 1/6W	
R	807	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R	808	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	810	QRD161J-684	CARBON RESISTOR	680K 5% 1/6W	
R	811	GRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
R	813	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	814	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	815	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	816	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	817	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	818	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	819	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	820	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	821	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	822	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	823	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	824	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	825	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	826	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	827	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	828	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	829	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	830	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	832	GRD161J-181	CARBON RESISTOR	180 5% 1/6W	
R	833	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	834	GRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R	839	GRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
R	840	GRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	

15. Packing

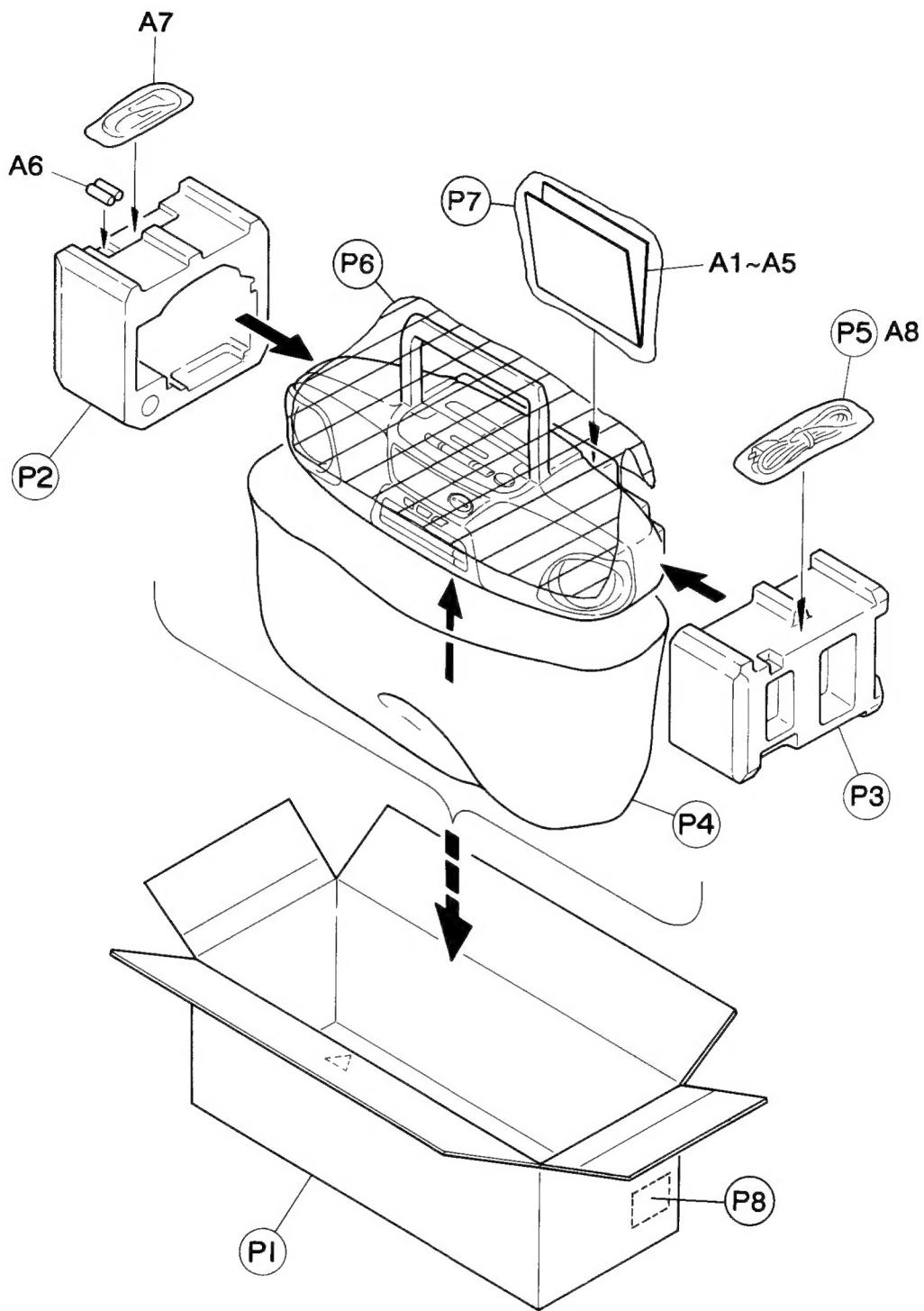


Fig. 15-1

■ Packing Parts List

BLOCK NO. M5MM □□□

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPC5194-002	CARTON		1		
	P 2	VPH1676-001	CUSHION (L)		1		
	P 3	VPH1676-002	CUSHION (R)		1		
	P 4	VPE3026-001	POLY BAG		1		
	P 5	QPGA015-03503	POLY BAG	FOR POWER CORD	1	B	
	P 6	QPGA012-02505	POLY BAG	FOR POWER CORD	1		
	P 7	VPK4002-038	SHEET	FOR SET	1		
	P 8	VPE3005-007	POLY BAG	FOR INST.BOOK	1		
		-----	CARTON LABEL		1		

■ Accessories

BLOCK NO. M6MM □□□

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN5194-251M	INSTRUCTIONS		1	E, GI	
		VNN5194-271M	INSTRUCTIONS		1	EN	
		VNN5194-671M	INSTRUCTIONS		1	B	
	A 2	VNN5194-261M	INSTRUCTIONS		1	E, EN, G	
	A 3	E43486-340B	SAFETY SHEET		1	B	
	A 4	BT-20135	WARRANTY CARD		1	G	
	A 5	BT-20066A	DISTRI.LIST		1	B	
	A 6	BT-54003-1	WARRANTY CARD		1	B	
	A 7	R6PRPA-2STSA	BATTERY		1		
	A 8	VGR0045-101	REMO-CON UNIT	RM-RXC3BK	1		
		QMP39FO-183	POWER CORD		1		
		QMP5520-183BS	POWER CORD		1	B	



VICTOR COMPANY OF JAPAN, LIMITED

AUDIO PRODUCTS DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan